Two-Year Outcomes Following Laparoscopic Radical Cholecystectomy for Carcinoma Gallbladder

Omprakash Prajapati, Jasmine Dhal, Sanjeet Rai, Arun Anand, Virinder Kumar Bansal

Department of Surgical Disciplines, All India Institute of Medical Sciences, New Delhi

Background

- In an aggressive malignancy like carcinoma gallbladder (GBC), a minimally invasive approach remains debatable
- Similar lymph node yield following open (ORC) and laparoscopic radical cholecystectomy (LRC), with better survival in the latter, has been observed

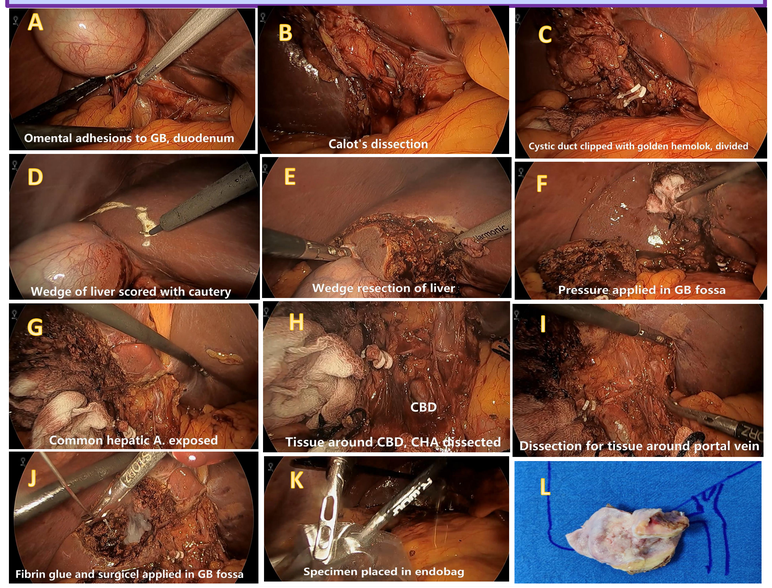
Aim

To evaluate and compare outcomes following LRC vs. ORC for resectable carcinoma gallbladder

Methods

- January 2021 – January 2025
- All patients with an incidental or preoperative diagnosis of GBC that underwent LRC were included.
- Demographic details, preoperative imaging and biopsy findings were recorded.
- Intraoperative outcomes and postoperative complications, final histology and survival were noted.

Procedure



Outcome	LRC (n=21)	ORC (n=11)
Age (years)	51.1	55.7
Males: Females	11:10	03:08
Operative time (min)	76.9	76.6
Blood loss (ml)	123.4	127.1
Length of hospital stay (days)	3.5	4.1
Intraop bowel injury	0	1
Blood transfusion	2	1
Transient bile leak	1	3
Ileus	1	0
Follow-up at 2 years (%)	18 (85.7)	7 (63.6)
Recurrence at 2 years (%)	2 (11)	1 (14)
Mortality at 2 years (%)	3 (14)	1 (9)

Results

Procedure	N (%)
LRC	18 (44)
ORC	11 (27)
Conversions	3 (7)
Unresectable	7 (17)
Robotic	1 (2.4)
LC	1 (2.4)

Site	N (%)
Fundus	24 (59)
Body	8 (19)
Neck	3 (7)
Unknown	6 (15)

Outcome	Yes	Unknown
Preop FNA (%)	14 (34)	0
Adhesions (%)	35 (85)	0
Spillage (%)	8 (19.5)	7
Stones (%)	31 (75.6)	0

GBC Diagnosis	Preop Diagnosis (n=25)	Incidental Diagnosis (n=16)
LRC/ Lap WRL+PL (%)	15 (60)	8 (50) (LC 1, Robotic 1)
ORC/ Open WRL+PL (%)	5 (20)	6 (37.5)
Unresectable (%)	5 (20)	2 (12.5)

Histopathology	LRC (n=21)	ORC (n=11)
T1b (%)	2 (9.5)	1 (9.1)
T2a (%)	5 (23.8)	0
T2b (%)	6 (28.5)	5 (45.5)
T3 (%)	5 (23.8)	3 (27.3)
ICPN-lowgrade dysplasia (%)	2 (9.5)	2 (18.2)
ICPN-high grade dysplasia (%)	1 (4.7)	0
Lymph node yield	3.9	3
N0 (%)	18 (85.7)	11 (100)
N1 (%)	3 (14.3)	0

Conclusion

Postoperative outcomes and oncologic safety of LRC for GBC parallels, and even betters that of ORC.