

Safety and Outcomes of Subtotal Cholecystectomy as a Bailout Procedure in Difficult Laparoscopic Cholecystectomy

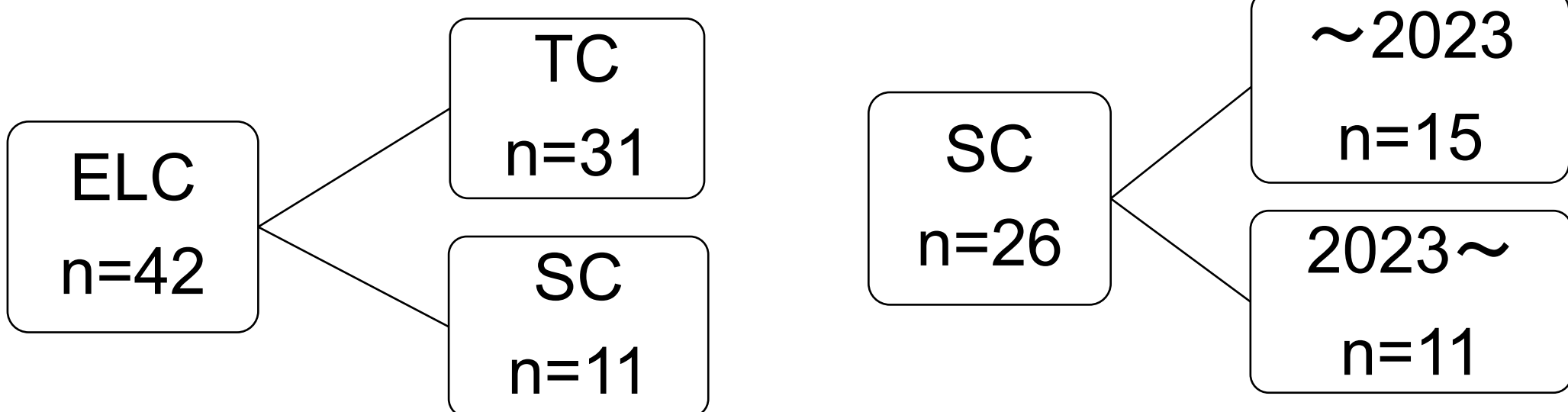
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Background

- The Tokyo Guidelines 2018 (TG18) recommend bailout procedures = Subtotal cholecystectomy (SC), for laparoscopic cholecystectomy (LC) in patients with acute cholecystitis to prevent bile duct injury.
Okamoto K. J Hepatobiliary Pancreat Sci. 2018.
- In July 2023, we changed our strategy to adopt SC for difficult cases.

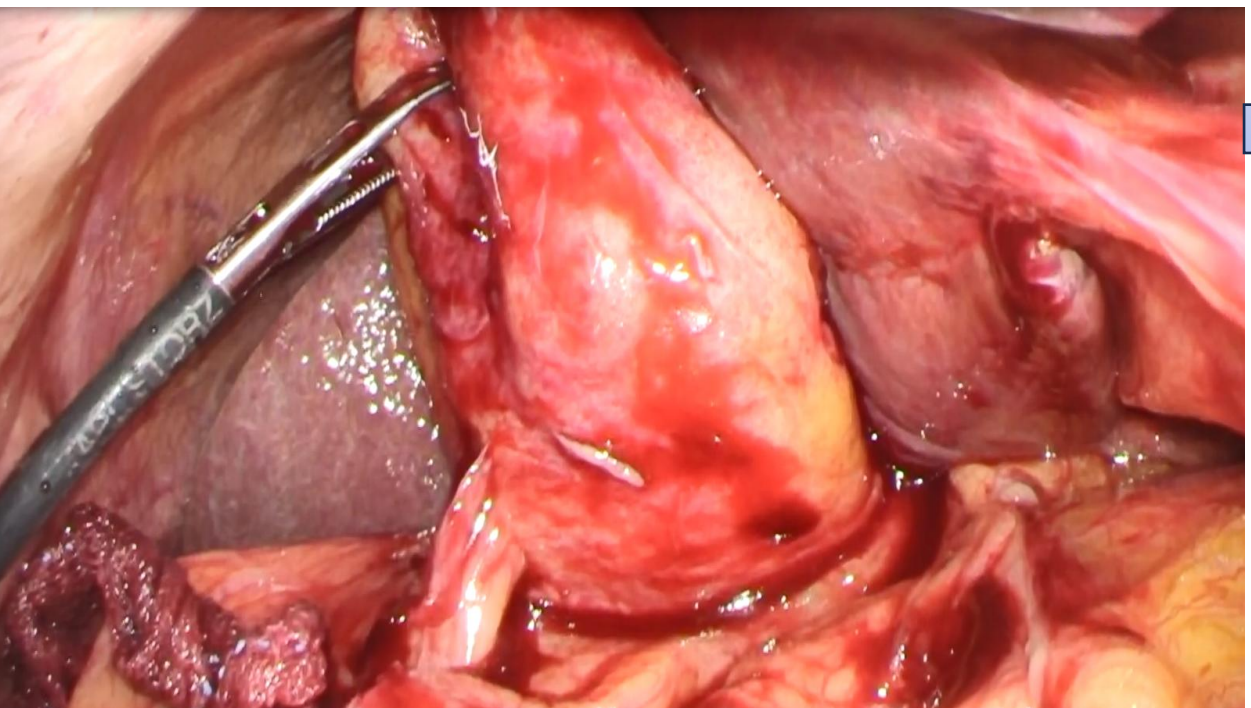
Methods

- Cases with difficulty cases were defined as unclearly recognition of those TG18 landmarks (Rouvière’s sulcus, common bile duct, the base of Segment 4, and subserosa-inner layer).
Umezawa A. Tandou. 2022.
- We compared the outcomes of TC and SC after 2023(analysis 1).
- Analysis 1
- Analysis 2
- We compared outcomes of SC performed before and after July 2023(analysis2).

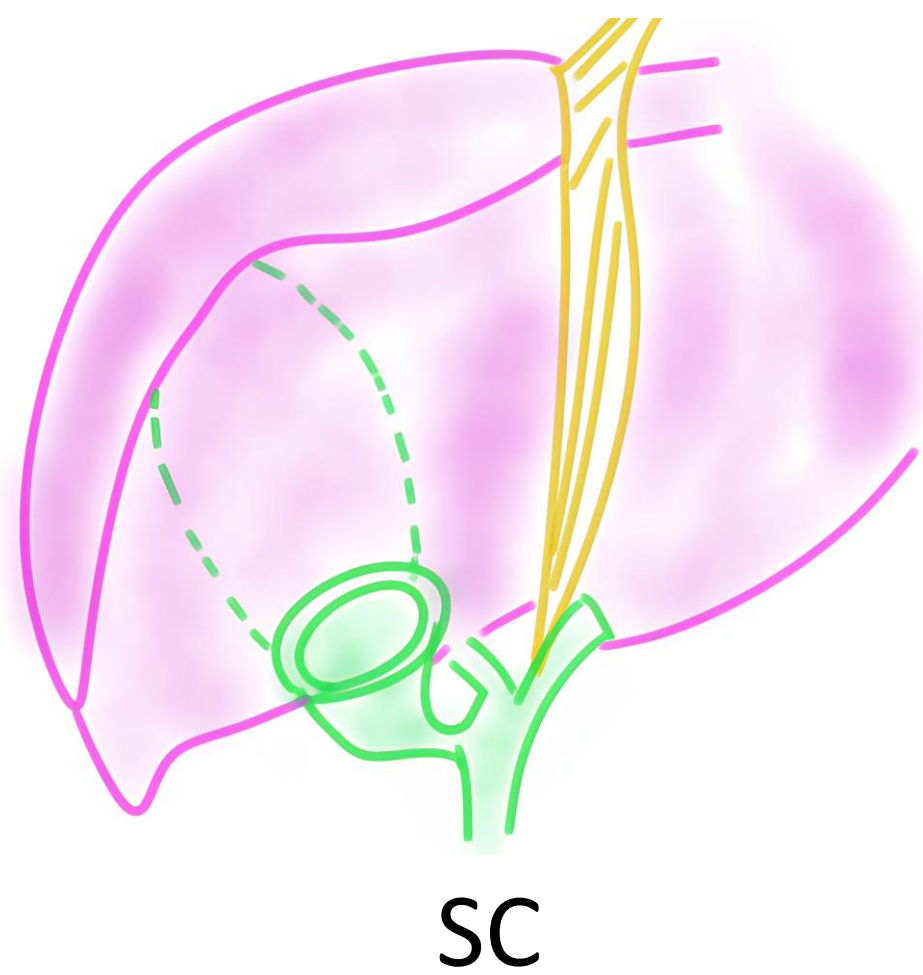


Discussion

- The active adoption of has clearly resulted in **shorter operative times** and **a lower rate of conversion to open surgery**.
- The complication rate also shows a downward trend, and more cases is likely to yield statistically significant differences.



unclearly recognition of those TG18 landmarks



SC

Okamoto K. J Hepatobiliary Pancreat Sci. 2018.

●Analysis 1

preoperative	TC(n=31)	SC(n=11)
Age(y.o.)	74.0 [60–78]	71.0 [45–89]
Sex: Male/female	17/14	7/4
Time from onset to surgery(day)	1[0 – 9]	4[0 – 12]
ASA≥3	3(9.7%)	4(36.4%)
CCI	4.0 [0–8]	4.0 [1–7]
BMI(kg/m ³)	24.2 [17.7–31.7]	26.2 [18.8–38.9]
≥Grade II	13(41.9%)	10(90.9%)

Variables	TC	SC	p-Value
Operation Time (min)	143 [77–249]	169 [150–238]	0.0058
Intraoperative blood loss (mL)	5 [5–300]	100 [5–240]	N.S.
Postoperative hospital stay (day)	7 [3–16]	10[7–24]	0.0046
Conversion rate	0(0%)	1(9.1%)	N.S.
Clavien–Dindo ≥ II	10(32.3%)	3(27.3%)	N.S.

●Analysis 2

preoperative	Before 2023 (n=15)	2023 onward (n=11)
Age(y.o.)	73.5 [39–91]	71.0 [45–89]
Sex: Male/female	11/4	7/4
Time from onset to surgery(day)	23[0 – 12]	4[0 – 12]
ASA≥3	5(33.3%)	4(36.4%)
CCI	5.0 [1–7]	4.0 [1–7]
BMI(kg/m ³)	25.6 [16.7–37.8]	26.2 [18.8–38.9]
≥Grade II	14(93.3%)	10(90.9%)

Variables	Before 2023	2023 onward	p-Value
Operation Time (min)	226 [154-374]	169 [150–238]	0.0169
Intraoperative blood loss (mL)	160 [5–990]	100 [5–240]	N.S.
Postoperative hospital stay (day)	12 [7–37]	10 [7–24]	N.S.
Conversion rate	10(66.7%)	1(9.1%)	0.0052
Clavien–Dindo ≥ II	10(66.7%)	3(27.3%)	N.S.

Conclusion

SC as bailout strategy in difficult cases contributes to operative safety.

Disclosures

The authors have no conflicts of interest to disclose.