LAPAROSCOPIC STAPLED CYSTOGASTROSTOMY VERSUS HAND SEWN IN MANAGEMENT OF PANCREATIC PSEUDOCYST IN TERTIARY CARE CENTRE IN CENTRAL INDIA: A RANDOMISED COMPARATIVE STUDY

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Introduction

Pancreatic pseudocyst is a complication of pancreatitis for which cystogastrostomy is a common operative method for internal drainage

Objectives:

The outcomes of Laparoscopic stapled cystogastrostomy vs hand sewn cystogastrostomy are compared. Various intra-operative parameters and post-operative outcomes in patients with pancreatic pseudocyst undergoing cystogastrostomy is evaluated by this randomised control trial.

Material and Method

It is a randomised control trial in which patients who underwent laparoscopic cystogastrostomy either by hand sewn or using endo GI stapler (Green cartridge 45mm) were included. Cases were compared in terms of intra-operative parameters, duration of surgery and post-operative outcomes.

Inclusion Criteria:

- Cases of uncomplicated pseudocyst of pancreas
- Persistent pseudocyst not amenable to conservative treatment
- Single solitary enlarged pseudocyst

Exclusion Criteria:

- Cases with end stage liver disease
- Portal Hypertension
- COPD
- Cases unfit for General Anaesthesia

Statistical Analysis:

Data was analysed using statistical software. Chi square test was applied for categorical data. P value <0.05 was be considered significant. Results were analysed by using SPSS 26.0 software

Results

Thirty patients in each group of hand sewn and of stapler used in LCG were enrolled. Stapled LCG was associated with significantly shorter operative time than hand sewn LCG. There was no significant post-operative pain and fever in both groups, no leak, no recurrence, no fistula in both groups ($P<0.05$).

Both groups had shorter duration of postoperative hospital stay($P<0.02$). Patients were followed up in OPD for 6 weeks. Cyst resolved in all patients. Endo GI stapler is costlier than Hand sewn method ($P<0.0001$), and considering poor patients in our settings, stapler LCG was not cost effective.

Conclusion

Endo GI stapler is costlier than Hand sewn method, and considering poor patients in our settings, stapler LCG was not cost effective.

References

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