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Summary

ENHANCED SURGICAL PERFORMANCE OF LAPAROSCOPIC COLORECTAL SURGERY USING ARTICULATED INSTRUMENTS (ARTISENTIAL®) AS COMPARED TO THAT USING CONVENTIONAL DEVICES: SINGLE INSTITUTION, OPEN, BEFORE-AND-AFTER PROSPECTIVE STUDY

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Colorectal

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A prospective study of 70 patients found that laparoscopic colorectal surgery with multijoint ArtiSential instruments achieved similar overall technical proficiency to conventional instruments, with a learning curve plateau at approximately 10 cases and improvements in depth perception, tissue handling, operation time, and blood loss.

KEY POINTS

- Patients undergoing laparoscopic colorectal surgery with ArtiSential (n=50) had significantly shorter operation times (88.1 vs 122.3 minutes, P=0.022) and less intraoperative blood loss (29.8 vs 56.5 mL, P=0.002) compared to conventional laparoscopy (n=20).
- Overall technical proficiency scores (GOALS) were similar between groups (15.9 vs 15.7, P=0.190), but ArtiSential achieved significantly higher scores in depth perception (P=0.014) and tissue handling (P=0.048).
- Learning curve analysis showed the first 10 ArtiSential cases represented an inexperienced phase, with technical proficiency improving significantly in the experienced phase (cases 11-50) compared to conventional surgery (P=0.037).
- No significant differences were observed in type of operation, hospital stay, or 30-day postoperative complications between the two groups.
- This study may interest laparoscopic colorectal surgeons evaluating articulated instrument technology and its adoption timeline.

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