Title: “The Use of Absorbable Clips in Laparoscopic Cholecystectomy”

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Purpose of the Study
To evaluate the efficacy of the Lapro-Clip™ absorbable clip in obtaining hemostasis and securing the cystic duct stump.

Methods
Fifty consecutive patients (36 females, 14 males) underwent laparoscopic cholecystectomy and were included in this study. Patients were randomized into two groups. Group 1 (25 patients) had metal clips on the cystic duct and cystic artery. Group 2 (25 patients) had lapro-clips on the same structures. One operator performed all the procedures in both groups.

Results
- No difference in operative times.
  - 33 min in group 1 vs. 37 min in group 2
- Hospital stay was similar in both groups.
  - 9 patients in group 1 and 10 patients in group 2 were discharged the same day.
  - 16 patients in group 1 and 13 patients in group 2 were discharged the next day.
  - 2 patients in group 2 were discharged after 48 hours due to urinary retention and chronic atrial fibrillation.
- No evidence of wound infection, intra-abdominal abscess formation, bleeding or bile leak in either group.
- No difference in postoperative recovery time between groups.
  - Average return to work was 10.9 vs. 11.5 days for group 1 and 2, respectively.

Conclusions
Based on the results, the metal and absorbable clips product similar results in operational times, hospital stays and absences in wound infection, intraabdominal abscess formation, bleeding or bile leak.

However, the Lapro-Clip™ absorbable ligating clips provides an advantage that the metal clip does not. These advantages include no clip migration into the common bile duct and no interference with CT and MRI scans.

**This concludes the clinical synopsis of this publication**

Medtronic provides the following review of a publication evaluating the efficacy of the Lapro-Clip™ absorbable ligating clips in obtaining hemostasis and cystic duct stump in laparoscopic cholecystectomy.