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1: [Surg Today. 2003;33\(1\):18-23.](#)



Efficacy of absorbable clips compared with metal clips for cystic duct ligation in laparoscopic cholecystectomy.

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PURPOSE: This study was conducted to examine the usefulness and safety of absorbable clips in laparoscopic cholecystectomy (LC). **METHODS:** We retrospectively compared the clinical data of 328 patients who underwent LC using absorbable clips for cystic duct ligation and 444 patients who underwent LC using metal clips for cystic duct ligation. **RESULTS:** The mean operative time in the absorbable clip group was significantly shorter than that in the metal clip group. The mean intraoperative blood loss and hospital stay were not significantly different between the two groups. The rate of conversion to open laparotomy in the absorbable clip group was significantly higher than that in the metal clip group, at 6.7% vs 2.3%, respectively. The most common reason for conversion was difficult adhesions and inflammation around the gallbladder. The morbidity of the metal clip group was significantly higher than that of the absorbable clip group, at 8.4% vs 4.0%, respectively. The incidence of major postoperative complications requiring laparotomy did not differ between the two groups. There were no deaths in the absorbable clip group, but 1 of the 444 patients (0.23%) in the metal clip group died from disseminated intravascular coagulation on postoperative day 3. **CONCLUSION:** The results of this study suggest that absorbable clips are as safe and effective as standard metal clips for vessel and duct ligation in LC.

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