

The Study on the Efficacy of Fibrin Glue in Preventing Post-traumatic Focal Pancreatitis (PTFP) After Radical Gastrectomy.

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Abstract:

Objective: This study was intended to evaluate the efficacy of fibrin glue (FG) in preventing post-traumatic focal pancreatitis (PTFP) after radical gastrectomy by examining the drainage fluids over 7 days post-op. **Methods:** Ninety-five patients who underwent D2 radical gastrectomy for gastric cancer were randomly assigned to a fibrin glue group (n = 48) receiving fibrin glue on the raw surface of the pancreas during surgery and a control group (n = 47), which did not receive fibrin glue. **Results:** We found no significant difference in operation time and intraoperative blood loss between groups ($p > 0.05$); no deaths occurred during surgery. The volume of ascitic fluid containing blood cells in the fibrin glue group was significantly lower than that in the control group ($p < 0.001$) at all times observed. Amylase levels in the drained fluids were highest at 24 h postoperatively in both groups, suggesting pancreatitis, but gradually decreased to normal levels within 7 days. The amylase in the drains in the control group was significantly higher than that in the FG group ($p < 0.001$) at all times observed, but it returned to normal 72 h postoperatively in the FG group. One death by hemorrhagic shock associated with PTFP was recorded in the control group. **Conclusion:** Fibrin glue is safe and effective in preventing PTFP following gastric surgery and shortens the clinical course of the disease. © 2014 The Society for Surgery of the Alimentary Tract.