Combination of polyglicolic acid felt and fibrin glue for prevention of

pancreatic fistula following pancreaticoduodenectomy.

Authors: Uemura K., Murakami Y., Hayashidani Y., Sudo T., Hashimoto Y., Ohge H., Sueda T.

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Abstract:

The most frequent cause of morbidity following pancreaticoduodenectomy is pancreatic fistula. An

appropriate technique to minimize pancreatic fistula is very important. Polyglicolic acid felt combined

with fibrin glue has been applied in other organ surgery with excellent results and without any

notable adverse reactions. We herein describe a new technique for prevention of pancreatic fistula

combination of polyglicolic acid felt and fibrin glue adjunct of using the as an

pancreaticoenterostomy following pancreaticoduodenectomy. Polyglicolic acid felt combined with

fibrin glue as an adjunct of pancreaticoenterostomy was applied prospectively to 25 consecutive

patients undergoing pancreaticoduodenectomy. Drain amylase was measured daily after the surgery

and the incidences of complications were recorded. Median drain amylase on day 1 after surgery

was 745IU/L, on day 2 it was 427IU/L, on day 3 it was 97IU/L, and on day 5 it was 38IU/L. Three

patients (12%) developed grade A pancreatic fistula. No grade B or C pancreatic fistula was

observed. No re-do operations, no postoperative percutaneous drainage, and no surgical mortality

occurred. The combination of polyglicolic acid felt and fibrin glue was extremely favorable for

prevention of pancreatic fistula following pancreaticoduodenectomy. © H.G.E. Update Medical

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