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The Change of Glucose Metabolism with GLP-1 after Pancreatectomy

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Introduction : The aims of this study were to investigate the postoperative B-cell function (BCF), insulin resistance and hormonal responses of glucagon-like peptide-1 (GLP-1) after pancreatectomy.

Methods : Oral glucose tolerance tests were performed in 19 patients (11 pancreaticoduodenectomy (PD) and 8 Left sided pancreatectomy (LP)) before and 1 month after operation. The changes in the serum glucose and insulin concentrations, homeostasis model assessment of insulin resistance (HOMA-IR), pancreatic BCF and GLP-1 were analyzed.

Results : The plasma insulin concentrations and BCF were significantly lower after PD. There was improvement of AUCGLP-1 was observed after PD. HOMA-IR after PD showed no change. Whereas all parameters of glucose metabolism and AUCGLP-1 were not changed after LP.

Conclusions : The changes in glucose metabolism and GLP-1 responses were different between PD and LP.

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