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High-risk Pancreatic Anastomosis Vs. Total Pancreatectomy After Pancreatoduodenectomy: Postoperative Outcomes And Quality Of Life Analysis

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Background: Postoperative outcomes and quality of life (QoL) after high-risk pancreateduodenectomy (PD) and total pancreatectomy (TP) have never been compared. We sought to evaluate TP as an alternative to PD in patients at high-risk for postoperative pancreatic fistula POPF.

Methods: All patients who underwent PD or TP at Verona University Hospital between July 2017 and December 2019 were identified. High-risk PD (HR-PD) was defined according to the alternative Fistula Risk Score. Patients who underwent HR-PD or planned PD that was intraoperatively converted to TP (C-TP) with at least 12 months of follow-up were enrolled in this cross-sectional study of QoL.

Results: A total of 566 patients underwent PD and 136 underwent TP during the study period. One hundred one (18%) PD patients underwent HR-PD, while 86 (63%) TP patients underwent C-TP. Postoperatively, the patients in the C-TP group exhibited lower rates of post-pancreatectomy hemorrhage (15% vs 28%), delayed gastric emptying (16% vs 34%), sepsis (10% vs 31%), and Clavien-Dindo ≥3 morbidity (19% vs 31%) and had shorter median lengths of hospital stay (10 vs 21 days) (all p⟨ 0.05). The rates of POPF in the HR-PD group were 39%. Mortality was comparable between the two groups (3% vs 4%). Although general, cancer- and pancreas-specific QoL were comparable between the HR-PD and C-TP groups, endocrine insufficiency occurred in all the C-TP patients, compared to only 13% of the HR-PD patients, and was associated with worse diabetes-specific QoL.

Conclusions: C-TP may be considered rather than HR-PD in few selected cases and after adequate counselling.

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