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## Tumor Size and Diabetes Are the Most Important Pre-Operative Prognostic Factors Influencing Survival After Pancreaticoduodenectomy in Pancreas Cancer Patients

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**Context** The median survival in resected pancreatic ductal adenocarcinoma (PDAC) is about two years. However, a considerable percentage of patients die within the first year after resection. **Objective** The aim of this study was to evaluate pre-operative factors predicting a short survival after pancreatico-duodenectomy (PD) for PDAC. **Methods** One hundred consecutive patients undergone PD for PDAC without in-hospital mortality from October 2006 to July 2010 were retrieved from our prospective database. The cohort was divided by survival into short term ( $\leq 12$  months: group A) and long term (>12 months: group B) survivors and evaluated regarding pre-operative factors including age, weight loss, BMI, tumor size and proximity (no contact-contact) to the portal/mesenteric

vein (PV/SMV). **Results** No significant differences were found between group A (n=27) and group B (n=73) regarding mean age ( $68\pm 2$  vs.  $66\pm 1$  years; P=0.3), weight loss (87% vs. 85%; P=1.0), BMI ( $24\pm 0.6$  vs.  $24\pm 0.5$  kg/m<sup>2</sup>; P=0.7) or adjuvant treatment. Group A had bigger tumors ( $35\pm 2$  mm vs.  $29\pm 1$  mm; P=0.01) but no significant difference in proximity of the tumor to the PV/SMV (contact: A 67% vs. B 49%; P=0.2) or venous resections. Group A had more frequently pre-operative diabetes (33% vs. 9.6%; P=0.01) compared to group B. **Conclusion** Tumor size and pre-operative diabetes seems to be important negative prognostic factors for survival after PD for PDAC.

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