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# **Enucleation of non-invasive tumors in the proximal pancreas: indications and outcomes compared with standard resections**

**Key words:** Enucleation; Pancreatic fistula;  
Pancreaticoduodenectomy; Central pancreatectomy

# ***Research Summary***

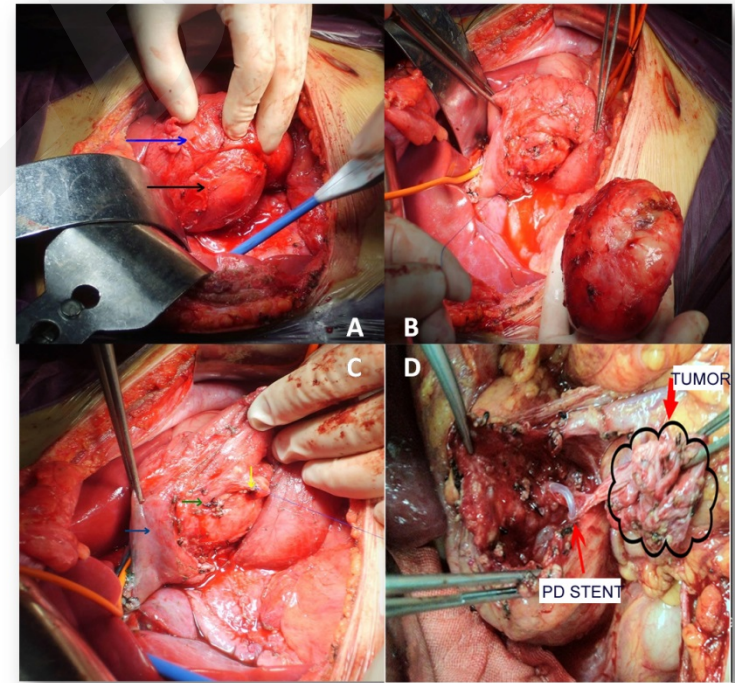
**This retrospective study enrolled 123 patients with non-invasive tumors in the proximal pancreas underwent different surgical procedures including:**

- Enucleation (40)**
- Pancreaticoduodenectomy (61)**
- Central pancreatectomy (22)**

**In the study we concluded that enucleations can be carried out safely and effectively for tumors in the proximal pancreas even if the tumor is larger than 3 cm and close to the main pancreatic duct (MPD).**

# ***Innovation points***

- The first and largest series regarding enucleation of large tumors adjacent to the MPD.
- The first and largest series of injury and repair of the MPD after tumor enucleation.



# ***Innovation points***

- Tumor size affects the surgical strategy and post-operative complications after enucleation.

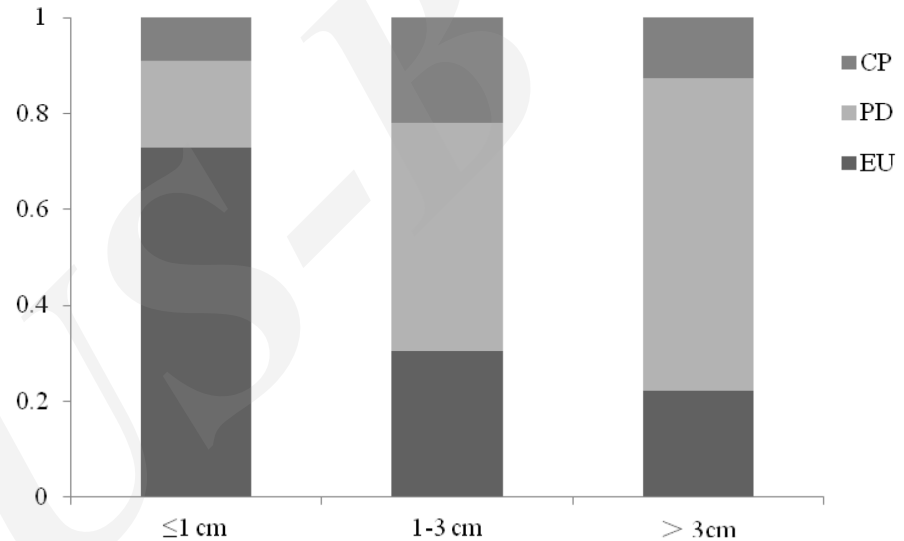


Fig 3: Percentage of surgical procedures varied with tumor size

EU, enucleation; PD, pancreaticoduodenectomy;  
CP, central pancreatectomy