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Summary

EFFICACY AND SAFETY COMPARISON OF BALLOON CATHETER AND BASKET CATHETER FOR ENDOSCOPIC PANCREATIC DUCT STONE CLEARANCE

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Pancreas

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A propensity score-matched retrospective study of 202 chronic pancreatitis patients found basket and balloon catheters achieved similar overall stone clearance rates during ERCP, though balloon catheters performed better for stones ≥2cm before extracorporeal shock wave lithotripsy.

KEY POINTS

- Complete stone clearance rates were comparable between basket and balloon catheters overall (86.1% vs 84.2%, P=0.692), with no significant differences in partial or unsuccessful clearance.
- For stones ≥2cm before ESWL, balloon catheters achieved significantly higher complete clearance than basket catheters (100% vs 70.0%, P=0.031).
- ESWL prior to stone extraction was the only independent predictor of complete clearance in multivariate analysis (OR 2.3, 95% CI 1.2-4.3, P=0.013).
- Complication rates were similar between groups for pancreatitis (5.9% vs 8.9%), infection, and perforation, with no bleeding or basket impaction detected.
- This material is most relevant for gastroenterologists and endoscopists managing pancreatic duct stones in chronic pancreatitis patients.

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