

NEW THROUGH-THE-NEEDLE BRUSH FOR PANCREATIC CYSTS ASSESSMENT: A RANDOMIZED CONTROL TRIAL

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Poster

Pancreas

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A new loop brush device for EUS-guided sampling of pancreatic cysts demonstrated safety and significantly improved cell yield compared to standard aspiration in a randomized controlled trial in pigs.

KEY POINTS

- The loop brush, deployed through a 22G EUS-FNA needle, produced 11.7 times higher median cell counts than standard aspiration ($p < 0.0001$) in 114 artificial cysts across six pigs.
- Diagnostic cytological smears were obtained in 77% of loop brush cases versus 54% in controls, a statistically significant difference ($p = 0.01$).
- No adverse events or significant device malfunctions occurred during loop brushing, and hemoglobin levels showed no significant difference from controls ($p = 0.32$).
- The authors conclude that the loop brush appears safe and effective for cytological sampling, and recommend further clinical studies.
- The study was conducted by investigators with patent applications and commercial interests in the loop brush technology.

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