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Summary

# QUALITY OF TISSUE SAMPLES OBTAINED BY ENDOSCOPIC ULTRASOUND-GUIDED LIVER BIOPSY: A RANDOMISED, CONTROLLED CLINICAL TRIA

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Hepatobiliary

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**A randomized controlled trial of 90 patients found EUS-guided liver biopsy achieved higher sample adequacy than percutaneous biopsy (70.4% versus 32.6%) with similar safety and diagnostic accuracy.**

KEY POINTS

- EUS-guided liver biopsy yielded adequate tissue samples in 70.4% of cases compared to 32.6% with percutaneous biopsy, meeting predefined criteria of specimen length at least 20 mm and at least 11 complete portal tracts.
- Total specimen length was significantly longer with EUS-guided biopsy (23.5 mm versus 17.5 mm), though sample fragmentation occurred more frequently with the endoscopic approach.
- Both techniques provided a final histological diagnosis in all but one case, with no differences in adverse events and high patient satisfaction reported for both procedures.
- The study supports EUS-guided liver biopsy as a safe and accurate alternative to percutaneous biopsy for evaluating parenchymal liver diseases.
- This single-centre randomized trial is relevant to gastroenterologists and hepatologists considering biopsy route selection for diagnostic evaluation of liver disease.

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