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Summary

ASSESSEMENT OF NEW ULTRASOUND-BASED METHODS FOR LIVER STEATOSIS QUANTIFICATION AS COMPARED TO CONTROLLER ATTENUATION PARAMETER

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A prospective study of 275 patients evaluated two quantitative ultrasound parameters, TAI and TSI, for liver steatosis assessment compared to controlled attenuation parameter, finding both methods feasible with good diagnostic accuracy for at least mild steatosis.

KEY POINTS

- Reliable measurements were obtained in 100% of cases for both CAP and the QUS parameters TAI and TSI
- TAI showed the best diagnostic performance with a cut-off value >0.73 achieving AUROC 0.87, sensitivity 67.6%, specificity 95.1%, PPV 96.9%, and NPV 56.1% for detecting at least mild steatosis
- TSI demonstrated a cut-off value >96.5 with AUROC 0.84, sensitivity 76.9%, specificity 82.9%, PPV 91.1%, and NPV 61.3% for at least mild steatosis
- Moderate correlations were observed between TSI and CAP (r=0.56) and between TSI and TAI (r=0.49)
- The study included 275 patients with mean age 55.9±12.2 years, 59% male, assessed in the same session using both ultrasound modalities

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