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Summary

LIVER STEATOSIS ASSESSMENT BY NEW ULTRASOUND-BASED QUANTITATIVE METHODS

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A prospective study of 285 patients established cut-off values for two quantitative ultrasound parameters, TSI and TAI, for detecting mild liver steatosis, finding good accuracy and strong correlation with controlled attenuation parameter.

KEY POINTS

- TAI showed overall cut-off >0.73 for mild steatosis with AUC 0.82, sensitivity 78.3%, and specificity 71.6%; TSI showed overall cut-off >96.2 with AUC 0.74, sensitivity 87.9%, and specificity 53.0%.
- NAFLD patients had higher cut-off values (TAI >0.75, TSI >96.5) than ALD patients (TAI >0.66, TSI >94.9).
- TAI correlated strongly with CAP (r=0.701 overall), while TSI showed moderate correlation (r=0.56 overall); no significant performance difference was found between TAI and TSI by DeLong test.
- In multivariate analysis, hypertension and obesity were independently associated with TSI values, while diabetes mellitus was independently associated with TAI values.
- This material is most relevant for clinicians seeking non-invasive ultrasound-based screening tools for liver steatosis and researchers interested in quantitative ultrasound parameter validation.

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