

USEFULNESS OF VIRTUAL SCALE ENDOSCOPE FOR EARLY GASTROINTESTINAL LESIONS

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Poster

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A prospective two-center study of 60 early gastrointestinal lesions found that Virtual Scale Endoscope (VSE) measured resected lesion size with significantly less variation than visual estimation (mean error 0.3% vs -1.7%, $p < 0.001$).

KEY POINTS

- VSE is a newly developed endoscope that displays a virtual scale using triangulation and has been reported to measure polyp size more accurately than visual estimate in simulated models.
- The study enrolled 60 lesions (20 each in esophagus, stomach, and colon) measuring 20 mm or less, with mean size 14.0 ± 6.3 mm and various macroscopic types including protruded, slightly elevated, and flat or depressed.
- VSE measurement error ($0.3 \pm 8.8\%$) was significantly less variable than visual estimation error ($-1.7 \pm 29.3\%$) when compared to ruler measurement of resected specimens ($p < 0.001$).
- The authors conclude that VSE measurement is accurate and acceptable, with closer approximation to true size and less variation than visual estimation by endoscopists.
- Virtual Scale Endoscope was provided by FUJIFILM for this study.

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