PROSPECTIVE AND COMPARATIVE OBSERVATIONAL STUDY BETWEEN SINGLE-BALLOON ENTEROSCOPY AND MOTORIZED SPIRAL ENTEROSCOPY

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A prospective comparative study of 366 enteroscopies found that single-balloon enteroscopy and motorized spiral enteroscopy are both effective and safe for small bowel evaluation, with motorized spiral enteroscopy achieving significantly greater depth of insertion.

KEY POINTS

- Motorized spiral enteroscopy achieved significantly higher depth of maximum insertion than single-balloon enteroscopy in both anterograde route (431 vs 245 cm, p<0.001) and retrograde route (150 vs 112 cm, p=0.04).
- Technical success, diagnostic yield, and interventional yield were similar between the two techniques, with no significant differences in small bowel exploration time.
- Overall adverse event rates (3.9% vs 8.9%) and serious adverse event rates (1.1% vs 2.1%) were comparable between single-balloon and motorized spiral enteroscopy.
- The study included 295 patients undergoing 366 procedures after propensity score matching to reduce confounding bias, with capsule endoscopy findings being the most common indication (72%).

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