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Summary

THE EDUCATIONAL PROGRAM WITH A NOVEL EST SIMULATOR CAN CONTRIBUTE TO ACHIEVE SAFE EST AND TO IMPROVE TRAINEE'S CONFIDENCE OF THE EST PROCEDURE: AN EDUCATIONAL INTERVENTION STUDY

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A training program using a novel endoscopic sphincterotomy simulator with simulated bleeding complications significantly improved trainee success rates and self-confidence in performing the procedure.

KEY POINTS

- Thirty gastroenterology physicians (median 6.5 years post-graduation, 57.5 months endoscopic training) completed a program combining instructional video, simulator practice, and expert feedback based on the Bethesda ERCP Skill Assessment Tool
- Success rate for endoscopic sphincterotomy improved significantly from 43% on first attempt to 77% on second attempt after feedback
- Self-confidence in performing endoscopic sphincterotomy independently increased significantly from median score 24 to 53 on visual analogue scale
- Understanding of procedures and devices increased significantly from median score 42.5 to 65, and expectations for simulator learning rose from median score 69.5 to 85.5
- The simulator features a soft-material duodenal papilla with pseudo-vessels that mimic bleeding complications from incorrect incisions outside the 11-12 o'clock direction or over-cutting

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