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Summary

COLONOSCOPY WITH A ROBOTIC ENDOSCOPE (CARE) STUDY: 50-PATIENT FIRST-IN-HUMAN EXPERIENCE USING A NOVEL ROBOTIC COLONOSCOPY SYSTEM (TRITON)

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Colorectal | Endoscopy | Digestive Oncology

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First-in-human study of the Triton™ robotic colonoscopy system achieved 100% cecal intubation in 50 patients with no adverse events at 14-day follow-up.

KEY POINTS

- The system uses dual dynamic rigidization technology enabling shape-controlled navigation and precise tip deflection and roll with a remote-controlled colonoscope and overtube.
- Phase A (10 patients, tandem design) and Phase B (40 patients, robotic only) both achieved 100% cecal intubation with no adverse events including perforation, bleeding, or hospitalization.
- All 50 procedures were completed in left-lateral position without repositioning, abdominal pressure, or conversion to manual colonoscopy.
- In Phase B, 77/77 polypectomies of lesions <2 cm were completed successfully, with ADR 54.2% and polyp detection rate 67.5%.
- Median time to cecum was 13 minutes (range 5-36 minutes); mucosal injuries were all grade 1-3 with no intervention required.
- Physical and mental load was low (median NASA task load index 33 on a 0-600 scale).

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