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Summary

POST-COLONOSCOPY COLORECTAL CANCER: INCIDENCE, CHARACTERISTICS AND PREDICTIVE FACTORS

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Colorectal

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In this multicenter retrospective study of 101,524 colonoscopies, post-colonoscopy colorectal cancer occurred in 4.3% of all colorectal cancer cases, with inadequate bowel preparation and piecemeal polypectomy identified as independent risk factors.

KEY POINTS

- Among 2,508 colorectal cancers, 107 were post-colonoscopy colorectal cancers, representing rates of 0.4% at 1 year, 2.2% at 3 years, 3.1% at 5 years, and 4.1% at 10 years.
- Nearly half (48.6%) of post-colonoscopy colorectal cancers were classified as missed lesions despite adequate colonoscopy, while 20.3% resulted from incomplete resection and 25.7% from missed lesions with inadequate colonoscopy.
- Post-colonoscopy colorectal cancers were predominantly located in the right colon (42.4%) and left colon (41.4%), with most presenting at stage I (31.5%) or stage III (32.6%).
- Previous inadequate bowel preparation (OR 3.05, 95%CI 1.73-5.36) and piecemeal polypectomy (OR 19.89, 95%CI 8.67-45.61) were independently associated with post-colonoscopy colorectal cancer development.
- This material is relevant for endoscopists and gastroenterologists focused on colonoscopy quality improvement and colorectal cancer prevention.

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