

DEVELOPMENT AND VALIDATION OF A NOVEL CODING ANALYTIC TO IMPROVE ASSESSMENT OF ADENOMA AND SERRATED POLYP DETECTION RATES FOR COLONOSCOPY QUALITY STANDARDS

Diana Lewis

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Poster

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A semi-automated coding analytic algorithm for extracting adenoma detection rate and serrated polyp detection rate from colonoscopy and histology reports achieved 99.9% accuracy after refinement in a validation cohort of 2022 colonoscopies.

KEY POINTS

- The coding algorithm extracted patient names with 100% concordance and measured ADR and SDR with 99.9% accuracy in the validation phase, with sensitivities of 99.9% for ADR and 99.6% for SDR, and specificities of 100% for both metrics.
- Initial algorithm accuracy was 98.9%, with discrepancies due to spelling variation, different histology report dates, missing histology reports, and overlapping histological terms; modification of search terms improved performance to near-perfect accuracy.
- The validation cohort included 2022 colonoscopies performed by 40 endoscopists from July to December 2022, with remaining discrepancies attributable to missing histology reports in the database software rather than algorithm error.
- The algorithm semi-automatically extracted patients' names, polyp type, caecal intubation rate, and bowel preparation quality, addressing the challenge of matching endoscopy and histology reports across separate electronic medical record systems.
- The authors suggest wider adoption of such coding analytics may enable more time-efficient auditing of colonoscopy quality indicators in healthcare services.

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