HARNESSING LANGUAGE MODELS FOR STREAMLINED POST-COLONOSCOPY PATIENT MANAGEMENT: A NOVEL APPROACH

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A pilot study evaluating ChatGPT's ability to provide post-colonoscopy surveillance recommendations found 90% adherence to guidelines across 20 clinical scenarios, with very good inter-rater agreement between two senior gastroenterologists.

KEY POINTS

- In 18 of 20 scenarios (90%), ChatGPT's post-colonoscopy surveillance recommendations adhered to society guidelines, with both evaluating gastroenterologists agreeing on correctness in 85% of cases.
- Inter-rater agreement between the two senior gastroenterologists was very good, with a Fleiss' kappa coefficient of 0.84 ($p<0.01$).
- ChatGPT interpreted free text clinical notes similarly to structured endoscopy reports in 95% of scenarios and composed patient letters with lifestyle advice.
- Limitations acknowledged by the authors include inherent randomness in ChatGPT responses and the possibility of incorrect recommendations.
- The authors state that future prospective research is needed to explore integration into electronic health record systems and evaluate effectiveness as a decision support tool.

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