

AI FOR ENDOSCOPIC DECISION SUPPORT: PERFORMANCE ASSESSMENT IN EMERGENCY AND ROUTINE CASES

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This study evaluated three AI models as decision-support tools for endoscopic procedures by comparing their recommendations against expert gastroenterologist evaluations across 120 clinical cases in four procedural categories.

KEY POINTS

- For emergency EGD cases, Google GEMINI showed substantial agreement with the expert gastroenterologist ($\kappa = 0.733$), while ChatGPT and Microsoft Copilot showed only weak agreement ($\kappa = 0.267$ and 0.203 , respectively).
- Microsoft Copilot achieved substantial agreement with the expert for ERCP timing in cholangitis cases ($\kappa = 0.663$).
- ChatGPT demonstrated almost perfect agreement for polypectomy management decisions ($\kappa = 0.954$) and substantial agreement for PEG placement indications ($\kappa = 0.796$).
- Agreement among the three AI models varied by topic, ranging from fair for PEG placement ($\kappa = 0.375$) to moderate for emergency EGD and ERCP timing ($\kappa = 0.540$ and 0.583).
- The findings suggest AI models show potential as decision-support tools in endoscopy, though performance inconsistencies across models and topics indicate need for further optimization.

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