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Summary

A CASE OF OVERT GASTROINTESTINAL BLEEDING MANAGED DURING COVID-19: THE ROLE OF ARTIFICIAL INTELLIGENCE BASED-TECHNOLOGIES

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Small Intestine & Nutrition

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A case report describes AI-assisted capsule endoscopy enabling rapid detection and treatment of a duodenal Dieulafoy's lesion in an 80-year-old patient with recurrent overt GI bleeding during the COVID-19 pandemic.

KEY POINTS

- An 80-year-old male with iron-deficiency anemia and melena after cardiovascular surgery and dual antiplatelet therapy underwent capsule endoscopy with AI-embedded Navicam SB system after initial EGD and colonoscopy were negative
- AI-assisted review detected active bleeding from the duodenum or proximal jejunum within seconds, leading to urgent EGD 4 hours later that identified and treated an actively bleeding Dieulafoy's lesion in the third portion of the duodenum
- At 30-months follow-up, the patient had no re-bleeding episodes and stable hemoglobin of 11 g/dL
- The authors state that AI technology by Navicam SB system allows rapid video download and prompt bleeding detection, potentially improving patient outcomes and reducing hospital stay particularly when resources are limited

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