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Summary

DOES THE DUODENAL MUCOSA-ASSOCIATED MICROBIOME AFFECT ON THE QUALITY OF THE BOWEL PREPARATION?

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Oesophagus

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A study of 85 patients found that poor bowel preparation quality for colonoscopy was associated with reduced duodenal mucosal abundance of Veillonella and Prevotella and increased Pseudomonas.

KEY POINTS

- Among 85 patients undergoing same-day upper endoscopy and colonoscopy, bowel preparation was rated good or very good in 65 patients, fair in 13, and poor in 7 using the Aronchick scale.
- Patients with poor-quality bowel preparation had reduced relative abundance of Veillonella and Prevotella in duodenal mucosa-associated microbiota and increased relative abundance of Pseudomonas.
- Alpha diversity of duodenal mucosa-associated microbiota did not differ significantly between patients with different bowel preparation quality ratings.
- The authors suggest these findings provide further evidence that duodenal mucosa-associated microbiota may influence gastrointestinal motor function, given prior associations between reduced Veillonella and delayed gastric emptying.
- This material is relevant to gastroenterologists and researchers interested in the gut microbiome's role in gastrointestinal motility and procedural preparation.

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