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Summary

NON-INVASIVE DIAGNOSTICS OF ULCERATIVE COLITIS REMISSION

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A study of 41 ulcerative colitis patients identified five gut microbiota genera that predict clinical and endoscopic remission using a logistic regression model based on 16S ribosomal RNA gene sequencing.

KEY POINTS

- Patients achieving remission showed statistically significant increases in Streptococcus, NK4A214_group, and Pelomonas, and decreases in Enterococcus and Actinomyces compared to those in relapse.
- The logistic regression model incorporating these five genera was statistically significant (chi-square p = 0.002) with pseudo R-squared values of 0.556 (Cox & Snell) and 0.741 (Nagelkerk).
- The study included 21 patients with left-sided UC in mild to moderate relapse and 20 patients in clinical endoscopic remission, with microbiota assessed by NGS sequencing on the IlluminaMiSeq platform.
- The authors propose the model could serve as a non-invasive prognostic tool for UC remission and inform decisions on modifying drug therapy in gastroenterological practice.

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