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Summary

# LIPIDOMIC ANALYSIS OF FAECES FROM PATIENTS WITH ULCERATIVE COLITIS UNDERGOING FAECAL MICROBIOTA TRANSPLANTATION PREDICTS TREATMENT RESPONSE

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**A randomised controlled trial of 18 treatment-naïve ulcerative colitis patients found that responders and non-responders to faecal microbiota transplantation had distinct baseline and sustained post-treatment faecal lipidomic profiles, with fatty acids and glycerophospholipids differing significantly between groups.**

KEY POINTS

- Patients who responded to FMT showed a different pre-treatment faecal lipidomic profile compared to non-responders (diagnostic accuracy 0.93), and this difference persisted 12 weeks after treatment (diagnostic accuracy 1.0).
- Six of 14 patients in the FMT intervention groups and 2 control patients (antibiotics and bowel lavage only) demonstrated endoscopic response.
- Fatty acids and glycerophospholipids were statistically different between responders and non-responders (FDR adjusted $p<0.05$), with cholesterol sulfate and pantothenic acid more likely to be excreted in responders.
- The control group receiving only antibiotics and bowel lavage also showed moderate variance in the faecal lipidome before and after treatment (diagnostic accuracy 0.98).
- This study may be of interest to researchers investigating mechanisms of FMT response in inflammatory bowel disease and the role of lipid metabolism in ulcerative colitis.

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