gutflix
GI learning, personalised

Summary

TEMPORAL STABILITY OF FECAL METABOLOMIC PROFILES IN IRRITABLE BOWEL SYNDROME

Lena Öhman

UEG Week Copenhagen 2023 | Poster

Colorectal

October 15, 2023

Fecal metabolite profiles remain stable over time within individual IBS patients regardless of fluctuations in stool consistency, suggesting potential as a non-invasive diagnostic tool.

KEY POINTS

- Two cohorts of healthy subjects and IBS patients (Rome III/IV criteria) provided fecal samples analyzed by mass spectrometry, with Cohort A collecting daily samples over 5 days and Cohort B at baseline and 4 weeks.
- Within individual IBS patients, fecal metabolome dissimilarity was low and stable over both 5-day and 4-week periods, despite significant changes in stool consistency measured by Bristol Stool Form scale.
- Between-individual metabolome variation was significantly higher than within-individual variation in both healthy subjects and IBS patients across all time periods measured.
- At baseline, IBS patients showed higher metabolome dissimilarity compared to healthy subjects in Cohort B, but individual IBS patient profiles remained consistent between week 0 and week 4.
- This work addresses a knowledge gap regarding fecal metabolite stability in IBS and may inform development of metabolite-based diagnostic approaches for the condition.

VIEW THIS CONTENT ON GUTFLIX

https://gutflix.eu/search/d/55f2f612-743b-11ee-bc2f-0242ac140004

AI-generated summary

This summary was generated by an AI large language model based on the content transcript. It is for informational purposes only and should not be considered a substitute for clinical judgment. Always rely on your professional expertise and the full clinical context when making clinical decisions.