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Summary

CIRCULATING MIRNAS IN INFLAMMATORY BOWEL DISEASES - PRELIMINARY RESULTS

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Preliminary screening of 179 plasma microRNAs in 6 IBD patients versus 12 controls identified 45 differentially expressed microRNAs, including 29 upregulated and 7 downregulated, with let-7a-5p and miR-30b-5p correlating with disease duration.

KEY POINTS

- 45 microRNAs were differentially expressed ($p<0.05$) in the plasma of IBD patients compared to non-IBD controls, with 29 showing overexpression (fold regulation >1.5) and 7 showing underexpression (fold regulation <-1.5).
- let-7a-5p was upregulated in the IBD group (fold regulation 2.45, $p=0.001$) and positively correlated with years of disease duration ($p=0.01$, Pearson $r=0.919$).
- miR-30b-5p also showed positive correlation with years of disease duration ($p=0.049$, Pearson $r=0.812$).
- The authors state these are preliminary results from a small cohort (6 IBD, 12 controls) that require validation in a larger IBD cohort to assess potential value as diagnostic and prognostic biomarkers.
- This material is most relevant to researchers investigating microRNA biomarkers in inflammatory bowel disease and those interested in early-phase biomarker discovery studies.

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