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Summary

MUCOSA-ASSOCIATED MICROBIOTA WITH RELATED METABOLITES IN PATIENTS WITH DUODENAL NEOPLASMS

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Oesophagus

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A study of early duodenal cancer patients identified specific mucosa-associated microbiota and metabolite differences between duodenal tumor tissue and healthy controls that may be associated with tumor development.

KEY POINTS

- Cutibacterium, Faecalibacterium, and Brevundimonas were significantly higher in duodenal tumor surrounding mucosa, while Neisseria and Porphyromonas were significantly higher in healthy control mucosa
- Eight metabolites differed significantly between tumor and control tissue, with citrulline, choline, and NAD+ decreased in intramucosal carcinoma compared to healthy controls
- Principal component analysis revealed variable choline metabolism and methionine circuits in duodenal tumor tissue
- The study enrolled early duodenal cancer patients from April 2020 to October 2021 and used 16S rRNA gene sequencing and capillary electrophoresis-Fourier transform mass spectrometry to analyze mucus samples from tumor tissue, surrounding mucosa, and healthy controls

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