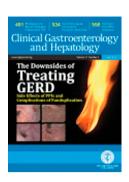
## **Accepted Manuscript**

Bile Acid Deficiency in Subgroup of Patients With Irritable Bowel Syndrome With Constipation Based on Biomarkers in Serum and Fecal Samples

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For consideration of publication in Clinical Gastroenterology and Hepatology

Bile Acid Deficiency in Subgroup of Patients With Irritable Bowel Syndrome With Constipation Based on Biomarkers in Serum and Fecal Samples

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Short title: Fecal and serum bile acid markers in IBS-C

#### **Abbreviations:**

BA – Bile Acid

BAM – Bile Acid Malabsorption

BMI – Body Mass Index

C4 - 7α-hydroxy-4-cholesten-3-one

CDCA - chenodeoxycholic acid

CA - cholic acid

DCA – deoxycholic acid

ELISA - Enzyme-Linked Immunosorbent Assay

FGF19 - Fibroblast Growth Factor 19

GC - geometric center

GPBAR1 (TGR5) - G protein-coupled bile acid receptor 1

HV – Healthy volunteers

HPLC - High Performance Liquid Chromatography

IBAT – Ileal bile acid transporter

IBS-C – irritable bowel syndrome with constipation

IBS-D - irritable bowel syndrome with diarrhea

In - Indium

LCA - Lithocholic Acid

LC-MS/MS - Liquid chromatography tandem-mass spectrometry

SD - Standard Deviation

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