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Case Control Study

Altered metabolism of bile acids correlates with clinical parameters and the ⁵⁸gut microbiota in patients with diarrhea-predominant irritable bowel syndrome

Wei W ^{et al.} Altered fecal bile acids in IBS-D

Wei Wei, Hui-Fen Wang, Yu Zhang, Yan-Li Zhang, Bing-Yu Niu, Shu-Kun Yao

Abstract

BACKGROUND

Bile acids (BAs) have attracted attention in the research of ¹irritable bowel syndrome with predominant diarrhea (IBS-D) due to their ability to modulate bowel function and their tight connection with the gut microbiota. The composition of the fecal bile acid

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Altered metabolism of bile acids correlates with clinical parameter



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The Gut Microbiota and Irritable Bowel Syndrome: Friend or ...

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5.1. **Altered Gut Microbiota** or Dysbiosis. There is a growing interest in investigating the role of an **altered gut microbiota** in the pathogenesis of IBS [14, 29]. Normal **gut microbiota** have either direct bactericidal effects or can prevent the adherence of pathogenic bacteria to the wall of the gastrointestinal tract [7, 30, 31]. Dysbiosis in the **gut** may facilitate the adhesion of enteric ...

Cited by: 128

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Gut Microbiota in Patients With Irritable Bowel Syndrome—A ...

<https://www.sciencedirect.com/science/article/pii/S0016508519346499>

Jul 01, 2019 · **Irritable bowel syndrome** (IBS) is a common functional gastrointestinal disorder that affects 10%–20% of the population 1 and up to 50% of referral cases are referred to gastroenterologists. 2 Thus, IBS is a significant socioeconomic burden to society. 3, 4. Therapies for IBS are only modestly effective, as the pathophysiology is not completely understood and is ...

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Abnormal **bowel** movements have been related to various cardiovascular risk factors such as dyslipidemia, hypertension, diabetes, and **altered metabolism of bile acids** and **gut microbiota**.

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877a – **Altered Gut Microbiota** Induce the Increased Excretion of **Bile Acids** in Patients with **Diarrhea-Predominant Irritable Bowel Syndrome** May 2019 Gastroenterology 156(6):S-198

[Fecal Microbiota of Diarrhea-Predominant Irritable Bowel ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6470425>

1. Introduction. Dysbiosis of the **gut microbiota** has been reported to contribute to **diarrhea-predominant irritable bowel syndrome** (IBS-D) [1, 2]. Our previous study showed that IBS-D **patients** have Bacteroides-dominant (type I) or Prevotella-dominant (type II) **gut** microbial signatures that are associated with colonic mucosa inflammation; however, healthy controls have a nondominant ...

Cited by: 3 **Author:** Qiong Jia, Lu Zhang, Jindong Zhang, Fei ...

Publish Year: 2019

[The Interplay of the Gut Microbiome, Bile Acids, and ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4363917>

The **gut microbiota**, **bile acids**, and health status are closely integrated and influence each other making it difficult to ascertain whether **gut** dysbiosis and modified BA pools are a cause or consequence of disease.... randomized study on the efficacy of Lactobacillus plantarum 299V in **patients** with **irritable bowel syndrome**. European Journal of ...

Cited by: 64 **Author:** Nidhi M. Sagar, Ian A. Cree, James A. Co...

Publish Year: 2015

[Altered Bile Acid Metabolism in Patients with Constipation ...](#)

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Abnormal **bowel** movements have been related to various cardiovascular risk factors such as dyslipidemia, hypertension, diabetes, and **altered metabolism of bile acids** and **gut microbiota**.

Irritable Bowel Syndrome

Medical Condition



A chronic gastrointestinal disorder

A chronic gastrointestinal disorder that affects the large intestine causing diarrhea, abdominal pain, cramps, bloating and gas.

 Very common (More than 3 million cases per year in US)

 Rarely requires lab test or imaging

 Treatments can help manage condition, no known cure

 Can last several years or be lifelong

The actual cause of irritable bowel syndrome isn't well understood, but various factors seem to play a role. Symptoms include cramping, abdominal pain, bloating, gas, and diarrhea or constipation. Treatment is aimed at relieving the symptoms; it cannot be cured.