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Name of Journal: *World Journal of Gastrointestinal Pharmacology and Therapeutics*

Manuscript NO: 59946

Manuscript Type: ORIGINAL ARTICLE

Case Control Study

Increased colon transit time and faecal load in irritable bowel syndrome

CTT and faecal load in IBS-patients

Abstract

BACKGROUND

Irritable bowel syndrome (IBS) is a bowel disorder involving abdominal pain or discomfort along with irregularity of stool form and passage frequency. The pathophysiology is poorly understood and seems to be multifactorial. Investigations of possible causes of IBS have included only a few colonic transit studies and no simultaneous determination of the colonic faecal content.

Increased colon transit time and faecal load in irritable bowel synd



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An increased faecal load in the colon with or without delayed transit will **increase bacterial counts and create a chronic inflammation of the colonic mucosa**, which is a risk factor for cancer onset. A functional bowel disorder is then likely to occur with gradually transition from a primary functional disease into specific organic diseases.

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Characterisation of faecal protease activity in irritable ...

<https://pubmed.ncbi.nlm.nih.gov/23911555>

Objectives: **Faecal serine proteases (FSPs)** may play a role in irritable bowel syndrome with **diarrhoea (IBS-D)**, but their origin is unclear. We aimed to structurally characterise them and define the impact of colonic cleansing and transit time.

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Author: David Tooth, Klara Garsed, Gulzar Sing...

Publish Year: 2014

Characterisation of faecal protease activity in irritable ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3995279>

Inverse correlation between faecal serine protease (FSP) activity and whole gut transit in patients with irritable bowel syndrome with **diarrhoea** (Spearman $r=-0.32$, $p=0.005$, $n=79$). Figure 7 Positive correlation between faecal protease (FP) activity and days/week with urgency in patients with irritable bowel syndrome with diarrhoea (Spearman $r=0.26$, $p=0.02$, $n=73$).

Cited by: 66

Author: David Tooth, Klara Garsed, Gulzar Sing...

Publish Year: 2014

PEOPLE ALSO ASK

Is irritable bowel syndrome a chronic condition?



Increased colon transit time and faecal load in irritable bowel syndrome



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Characterisation of faecal protease activity in irritable ...

<https://pubmed.ncbi.nlm.nih.gov/23911555>

Objectives: **Faecal** serine proteases (FSPs) may play a role in **irritable bowel syndrome** with diarrhoea (IBS-D), but their origin is unclear. We aimed to structurally characterise them and define the impact of colonic cleansing and **transit time**. Design: **Faecal** samples were obtained from 30 healthy volunteers (HV) and 79 patients with IBS-D participating in a trial of ondansetron versus placebo.

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Characterisation of faecal protease activity in irritable ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3995279>

The **precise cause of the disturbed bowel habit is unknown, but there has been much interest in recent reports that the faeces of patients with IBS-D have increased faecal serine protease (FSP) activity.** 2 These proteases have been shown to be the active component of faecal supernatants from patients with IBS-D which, when instilled into the mouse colon, act via PAR-2 receptors to cause increased ...

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Author: David Tooth, Klara Garsed, Gulzar Singh, Lu...

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Characterisation of faecal protease activity in irritable ...

<https://gut.bmj.com/content/63/5/753>

May 01, 2014 · The average transit time of these nine IBS patients was **21 h**, stool frequency 3.0/day and urgency score 1.3 on a 0–3 scale, which is typical for the group whose average values were 19 h for transit, stool frequency 2.6/day and urgency score 1.6. View this table: View inline. View popup.

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Characterisation of faecal protease activity in irritable ...

<https://pubmed.ncbi.nlm.nih.gov/23911555>

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Publish Year: 2014

Frequent Bowel Movements: Causes, Diagnosis & Treatment

<https://my.clevelandclinic.org/health/diseases/...>

Frequent bowel movements is a condition in which a person defecates (eliminates waste from the **bowel**) more often than usual. There is no "normal" number of **bowel** movements. Many healthcare providers...

PEOPLE ALSO ASK

Is irritable bowel syndrome a colon cancer?

When to call the doctor for irritable bowel syndrome?

What are the symptoms of irritable bowel syndrome?

Can artificial laxatives cause lazy bowel symptoms?

Feedback

Faecal retention: a common cause in functional bowel ...

Irritable Bowel Syndrome

Medical Condition

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.

Symptoms

The symptoms vary from one person to another. The most common ones include:

- Abdominal discomfort or pain
- Cramping or bloating
- Excess gas
- Indigestion
- Changes in patterns of bowel movement
- Diarrhea alternating with constipation
- Mucus in the stool

Treatments

Treatment focuses on relieving symptoms.

Medication

- Anti-diarrheal drugs: To relieve diarrhea. Loperamide · Cholestyramine · Colestipol
- Anticholinergics: To relieve spasms