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Can control of gut microbiota be a future therapeutic option for inflammatory bowel disease?

Atsushi Nishida, Kyohei Nishino, Keitaro Sakai, Yuji Owaki, Yoshika Noda, Hirotsugu Imaeda

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DOI: 10.1093/ilar/ilv030. Abstract. The **intestinal microbiota** has important metabolic and host-protective functions. Conversely to these beneficial functions, the **intestinal microbiota** is thought to play a central role in the etiopathogenesis of **inflammatory bowel disease** (IBD; Crohn's disease and ulcerative colitis), a chronic inflammation of the gut mucosa.

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Manipulation of the **microbiota** to enhance its beneficial components thus represents a potential **therapeutic strategy for inflammatory bowel disease**. Moreover, the **microbiota** might be a rich repository of metabolites that **can** be exploited for **therapeutic** benefit. Modern molecular techniques are facilitating improved understanding of host-microbe ...

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Inflammatory Bowel Disease

Medical Condition

A group of intestinal disorders that cause inflammation of the digestive tract.

Common (More than 200,000 cases per year in US)

Often requires lab test or imaging

Treatments can help manage condition, no known cure

Can be lifelong

IBD is said to be the result of autoimmune reactions. Inflammatory bowel disease (IBD) presents as Crohn's disease or ulcerative colitis. It may be characterized by diarrhea, abdominal pain and cramping, tiredness, and weight loss. Anti-inflammatory drugs play an important role in the treatment. Surgery is sometimes performed.

Symptoms

Symptoms may vary from mild to severe and include:

- Diarrhea
- Fever
- Fatigue

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While the exact etiology of **inflammatory bowel disease** remains unclear, increasing evidence suggests that the human gastrointestinal microbiome plays a critical role in **disease** pathogenesis. Manipulation of the **gut** microbiome has therefore emerged as an attractive alternative for both prophylactic and **therapeutic** intervention against inflammation.

Cited by: 26 **Author:** Dana Berg, Jose C Clemente, Jean-Frederic...
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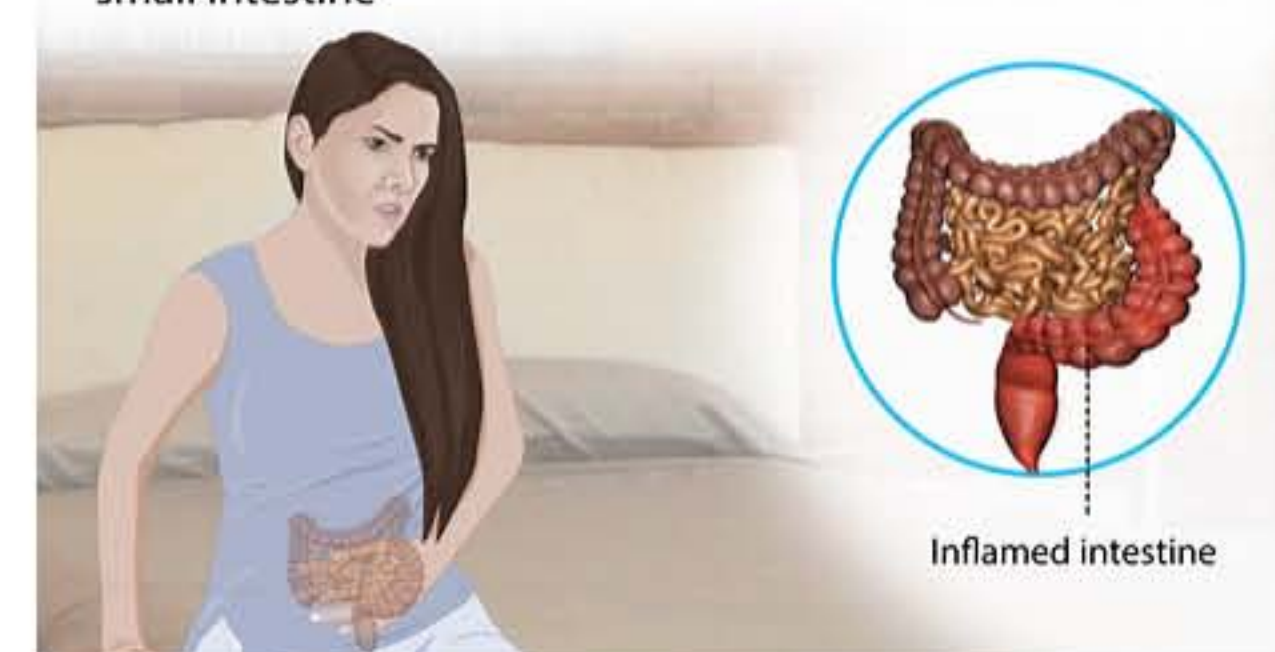
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Inflammatory Bowel Disease

Medical Condition

A group of inflammatory conditions of the colon and small intestine



A group of intestinal disorders that cause inflammation of the digestive tract. This causes abdominal pain, cramping and unexplained weight loss.

-  Common (More than 200,000 cases per year in US)
-  Often requires lab test or imaging
-  Treatments can help manage condition, no known cure
-  Can be lifelong

IBD is said to be the result of autoimmune reactions. Inflammatory bowel disease (IBD) presents as crohn's disease or ulcerative colitis. It may be characterized by diarrhea, abdominal pain and cramping, tiredness, and weight loss. Treatment of inflammatory bowel disease focuses on reducing inflammation that causes the symptoms which can eventually lead to complications. The treatment involves administering medication or performing surgery.

Symptoms

Symptoms may vary from mild to severe and include: