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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 63374

Manuscript Type: SYSTEMATIC REVIEWS

Surrogate markers of mucosal healing in inflammatory bowel disease: A systematic review

Systematic review of noninvasive markers for MH

Abstract

BACKGROUND

Mucosal healing has emerged as a key therapeutic target in inflammatory bowel disease, and achievement of this goal is documented by endoscopy with biopsy. However, colonoscopy is burdensome and invasive, and substitution with an accurate noninvasive biomarker is desirable.

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Mucosal healing in inflammatory bowel diseases: a ...

<https://pubmed.ncbi.nlm.nih.gov/22842618>

Thus, **mucosal healing** should be considered as an initial event in the suppression of **inflammation** of deeper layers of the **bowel** wall, rather than as a sign of complete **healing** of gut **inflammation**. In this **systematic review**, the clinical studies on **mucosal healing** are summarised and the effects of anti-**inflammatory** or immunosuppressive drugs ...

Cited by: 723

Author: Markus F Neurath, Simon P L Travis

Publish Year: 2012

Soluble Blood Markers of Mucosal Healing in Inflammatory ...

<https://pubmed.ncbi.nlm.nih.gov/31587036>

In this **review**, we focus on blood **markers** that may be able to assess **mucosal healing** (MH) in IBD and recent advances in this area. Introduction of commercial panel to predict MH opens the way for further developments so that colonoscopy or fecal **markers** may be avoided in some patients.

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Author: Olga Maria Nardone, Uday Nagesh Shivaji, ...

Publish Year: 2020

Surrogate Fecal Biomarkers in Inflammatory Bowel Disease ...

<https://pubmed.ncbi.nlm.nih.gov/29272479>

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Mucosal Healing in Inflammatory Bowel Diseases

https://www.medscape.com/viewarticle/811950_2

Jun 01, 2020 · Expert **Review** of Clinical Immunology ... that high CRP is an acceptable **surrogate marker** of histologic **inflammation**. ... is one major focus area in **inflammatory bowel disease**. **Mucosal healing** ...

The Potential for Medical Therapy to Reduce the Risk of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4165430>

Therefore, surrogate markers of mucosal healing including blood and stool based biomarkers and non-invasive, no radiation imaging techniques will remain a focus of continued investigation. For example, the

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
- Blood in stool
- Bleeding ulcers
- Stomach pain
- Bloating and cramping
- Reduced appetite
- Unintended weight loss
- Anemia
- Flatulence

Treatments

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.

Medication

Anti-inflammatory drugs: To reduce inflammation of the digestive tract