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Predictive value of biologic blood concentration on endoscopic inactivity in inflammatory bowel disease: A systematic review

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Abstract

BACKGROUND

Although blood concentration of biologics is an important composition of disease management in inflammatory bowel diseases (IBDs) patients, complexity and uncertainty of biological management encourages many disputes in predicting outcome of IBD patients through blood concentration of biologics.

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Biologics are antibodies targeting specific **inflammatory** pathways that have been used for the treatment of moderate to severe **inflammatory bowel disease** (IBD), including Crohn's **disease** (CD) and ulcerative colitis (UC), for over 2 decades. 1–5 There are several classes in clinical use, including antitumor necrosis factor (TNF), 1–3 anti ...

Low TREM1 expression in whole blood predicts anti-TNF ...

<https://pubmed.ncbi.nlm.nih.gov/30685385>

Background: With the changed therapeutic armamentarium for Crohn's **disease** (CD) and ulcerative colitis (UC), biomarkers predicting treatment response are urgently needed. We studied whole **blood** and mucosal expression of genes previously reported to predict outcome to anti-TNF therapy, and investigated if the signature was specific for anti-TNF agents.

Cited by: 27

Author: Bram Verstockt, Sare Verstockt, Jonas ...

Publish Year: 2019

Identification of Predictive Biomarkers for Response to ...

<https://clinicaltrials.gov/ct2/show/NCT03885713> ▼

Mar 22, 2019 · In patients with CD, the **endoscopic response** will be defined as a >50% decrease in the SES-CD14 weeks after starting the **biologic treatment**. As a secondary variable, **endoscopic response** will be also defined as a decrease ≥ 3 points in the **SES-CD** (considered as a clinically significant **endoscopic improvement**).

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Introduction: **Blood** C-reactive protein (CRP) and fecal calprotectin levels are routinely measured as surrogate markers of **disease** activity in **Inflammatory Bowel Disease** (IBD), but often do not correlate well with the degree of mucosal inflammation in the intestine as established by

endoscopy. Therefore, novel **predictive** biomarkers are urgently needed that better reflect mucosal

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Endoscopic scoring systems in Crohn's disease and ulcerative colitis aim to translate the assessment of mucosal disease activity into a quantified **value**.

[Achieving Target Infliximab Drug Concentrations Improves ...](https://academic.oup.com/ibdjournal/advance...)

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Another novel **blood** biomarker that our group previously described to be associated with disease activity, neutrophil CD64 expression, has been demonstrated to correlate with **endoscopic** activity. 10, 11 In addition, it has also been identified as a **predictive** marker for treatment relapse in asymptomatic CD during maintenance therapy. 10, 12 Our ...

[Frontiers | A Combined Set of Four Serum Inflammatory ...](https://www.frontiersin.org/articles/10.3389/fmed.2019.00251/full)

<https://www.frontiersin.org/articles/10.3389/fmed.2019.00251/full> ▼

Introduction: **Blood** C-reactive protein (CRP) and fecal calprotectin levels are routinely measured as surrogate markers of disease activity in **Inflammatory Bowel** Disease (IBD), but often do not correlate well with the degree of mucosal inflammation in the intestine as established by **endoscopy**. Therefore, novel **predictive** biomarkers are urgently needed that better reflect mucosal disease ...

Cited by: 6

Author: Arno R. Bourgonje, Julius Z. H. von Mart...

Publish Year: 2019

[\(PDF\) MicroRNA-320a Monitors Intestinal Disease Activity ...](https://www.researchgate.net/publication/340057678...)

<https://www.researchgate.net/publication/340057678...>

Predictive value of **blood** miR-320a levels for disease relapse in patients with inactive CD. The miR-320a levels at remission were analyzed regarding the prediction of flare during 18 months of ...

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Mar 22, 2019 · **A systematic review** of measurement of **endoscopic disease** activity and mucosal healing in Crohn's **disease**: recommendations for clinical trial design. Inflamm **Bowel Dis.** 2014 Oct;20(10):1850-...

Association of Biomarker Cutoffs and Endoscopic Outcomes ...

<https://academic.oup.com/ibdjournal/article/26/10/1562/5762686> ▾

Feb 27, 2020 · Fecal biomarkers such as **FC** may be more useful surrogate markers of endoscopic activity. 19–21 Several studies have reported correlation of **FC concentration** with **endoscopic disease**...

Cited by: 1

Author: Walter Reinisch, Remo Panaccione, Peter B...

Publish Year: 2020

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<https://academic.oup.com/ibdjournal/advance...> ▾

Nov 25, 2020 · INTRODUCTION. Treatment targets in patients with Crohn **disease** (CD) have evolved from resolving symptoms to achieving a combination of symptomatic remission (based on patient-reported...

A Noninvasive Method to Assess Mucosal Healing in Patients ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6018319>

In an analysis of the Monitr test that focused on the efficacy of **biologic** and nonbiologic therapies, the mean MHI **values** demonstrated a positive correlation with increasing **endoscopic disease** severity...

Cited by: 8

Author: William J Sandborn, Maria T Abreu, Marla ...

Publish Year: 2018

Therapeutic Drug Monitoring of Biologics for Inflammatory ...

<https://pubmed.ncbi.nlm.nih.gov/29462502>

Therapeutic drug monitoring (TDM), or the measurement of drug concentrations in **blood** and antidrug