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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 63729

Manuscript Type: ORIGINAL ARTICLE

Prospective Study

High fecal calprotectin levels are associated with SARS-CoV-2 intestinal shedding in COVID-19 patients: a Proof-of-Concept Study

Fecal calprotectin correlates with SARS-CoV-2 shedding

Verena Zerbato, Stefano Di Bella, Mauro Giuffrè, Anna Wladyslawa Jaracz, Ylenia Gobbo, Diego Luppino, Paolo Macor, Ludovica Segat, Raffaella Koncan, Pierlanfranco D'Agaro, Michael Valentini, Lory Saveria Crocé, Maurizio Ruscio, Roberto Luzzati

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Potential intestinal infection and faecal–oral ...

<https://www.nature.com/articles/s41575-021-00416-6>

Multiple studies have reported the positive detection of SARS-CoV-2 RNA in faecal samples or rectal swabs from patients with COVID-19 (refs 15, 59, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83,...

New Insights Into the Physiopathology of COVID-19: SARS ...

<https://www.frontiersin.org/articles/10.3389/fmed.2021.640073> ▾

Moreover, it was reported that SARS-CoV-2 can be detected in anal swabs and stool samples in almost 50% of COVID-19 patients (17, 18) and that duration of SARS-CoV-2 shedding from stool was longer than that from respiratory samples . This suggests that the gut is an active site for SARS-CoV ...

Depicting SARS-CoV-2 faecal viral activity in association ...

<https://gut.bmj.com/content/70/2/276> ▾

Feb 01, 2021 · Objective Although severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) RNA was detected in faeces of patients with COVID-19, the activity and infectivity of the virus in the GI tract during disease course is largely unknown. We investigated temporal transcriptional activity of SARS-CoV-2 and its association with longitudinal faecal microbiome alterations in patients with COVID-19.

Cited by: 24 Author: Tao Zuo, Qin Liu, Fen Zhang, Grace Chun...

Publish Year: 2020

Angiotensin-Converting Enzyme 2: SARS-CoV-2 Receptor ...

<https://www.ahajournals.org/doi/10.1161/CIRCRESAHA.120.317015>

Fecal viral RNA was detected in up to 70% of patients with viral shedding from the gastrointestinal tract associated with a more aggressive clinical course. 54,55 In a separate study, SARS-CoV particles were detected within the cytoplasm and surface microvilli of apical enterocytes in the ileum and colon 55 while in patients with COVID-19, SARS-CoV-2 was detected in feces suggesting fecal-oral transmission. ...

Cited by: 499 Author: Mahmoud Gheblawi, Kaiming Wang, Anis...

Publish Year: 2020

Diarrhea May Be First or Only Coronavirus Symptom in ...

<https://www.newsweek.com/diarrhea-coronavirus...> ▾

Apr 02, 2020 · Diarrhea may be the first or only symptom some COVID-19 patients experience, according to the authors of a study.. The study, published ...

High fecal calprotectin levels are associated with SARS-CoV-2 intest



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Feb 15, 2021 - Additionally, the IL-18 levels were higher in the faecal supernatants obtained from patients with COVID-19 who tested positive for SARS-CoV-2 RNA than in those faecal samples that tested negative ...

Author: Meng Guo, Wanyin Tao, Richard A. Fl... Publish Year: 2021

Frontiers | SARS-CoV-2 and the Gastrointestinal Tract in ...

<https://www.frontiersin.org/articles/10.3389/fped.2021.617980> ▼

SARS-CoV-2 has been detected in fecal samples of COVID-19 patients, suggesting that the GI tract might be a site of viral replication and activity (9, 16). Around half of all COVID-19 patients have detectable viral RNA in their stools, even when it is no longer identified in the respiratory tract (16 – 18).

Author: Maria Giovanna Puoti, Anna Rybak, F... Publish Year: 2021

Limited gut inflammation in COVID-19 - Medical News

<https://www.news-medical.net/news/20200908/Limited...> ▼

Sep 08, 2020 - High Fecal Viral Load Marks Fatality of Infection ... Gut-Specific SARS-Cov-2 IgA In COVID-19 Patients. ... which are responsible for durable immunity against intestinal viruses. Anti-SARS-CoV ...

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Author: Meng Guo, Wanyin Tao, Richard A. Flav... **Publish Year:** 2021

Implications of SARS-CoV-2 infection for ...

<https://europepmc.org/article/PMC/PMC7995160> ▾

Feb 16, 2021 · However, cytokine production at this level is plausible since **SARS-CoV-2** infection of enterocyte organoids engages a strong IFN response along with a milder induction of IP-10/CXCL10 and other cytokine genes. 18 , 45 In addition, the finding of increased **fecal calprotectin levels in COVID-19 patients** provides indirect evidence of gut ...

Limited gut inflammation in COVID-19 - Medical News

<https://www.news-medical.net/news/20200908/Limited...> ▾

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