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PROTON PUMP INHIBITORS AND COVID-19: A PARADOX RELATIK



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### Increased Risk of COVID-19 Among Users of Proton Pump ...

<https://pubmed.ncbi.nlm.nih.gov/32852340>

Introduction: **Proton pump inhibitors** (PPIs) increase the risk for enteric infections that is likely related to PPI-induced hypochlorhydria. Although the impact of acid suppression on severe acute respiratory syndrome coronavirus 2 is unknown thus far, previous data revealed that pH  $\leq 3$  impairs the infectivity of the similar severe acute respiratory syndrome coronavirus 1.

**Cited by:** 14

**Author:** Christopher V. Almario, William D. Chey...

**Publish Year:** 2020

### Proton Pump Inhibitors Linked With Increased Risk of ...

<https://www.everydayhealth.com/coronavirus/proton-pump-inhibitors-linked-with...>



Jul 16, 2020 · People taking a **proton pump inhibitor (PPI)** were more likely to test positive for **COVID-19** than individuals not taking a **PPI**, according ...

### Proton pump inhibitor or famotidine use and severe COVID ...

<https://gut.bmj.com/content/early/2020/12/08/gutjnl-2020-323668> ▾

Dec 03, 2020 · We read the recent articles published in Gut on the **relationship** between **proton pump inhibitor (PPI)** use and outcomes in **COVID-19** with great interest. 1 2 In the meta-analysis, the authors found that current or regular **PPI** users were more likely to have severe outcomes of **COVID-19** than non-users, but no significant association was observed for previous **PPI** use. 2 ...

### Proton pump inhibitor use doubles risk for COVID-19

<https://www.healio.com/.../20200707/proton-pump-inhibitor-use-doubles-risk-for-covid19> ▾

.Jul 07, 2020 · Source/Disclosures An independent, dose-response **relationship** was seen between

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PROTON PUMP INHIBITORS AND COVID-19: A PARADOX RELATION



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## Proton Pump Inhibitors Linked With Increased Risk of ...

<https://www.everydayhealth.com/coronavirus/proton...> ▾

Jul 15, 2020 · People taking a **proton pump inhibitor (PPI)** were more likely to test positive for **COVID-19** than individuals not taking a **PPI**, according to a new study. Investigators reported evidence of a...

## Proton Pump Inhibitors and COVID-19

<https://www.uspharmacist.com/article/proton-pump-inhibitors-and-covid19> ▾

Dec 18, 2020 · Analysis of the data demonstrated a dose-response relationship wherein patients taking a PPI twice daily had significantly higher odds of testing positive for COVID-19 than those using lower dose PPIs up to once daily. Patients taking histamine-2 receptor antagonists were not at an elevated risk.

## Increased Risk of COVID-19 Among Users of Proton Pump ...

<https://pubmed.ncbi.nlm.nih.gov/32852340>

Discussion: We found evidence of an independent, dose-response **relationship** between the use of antisecretory medications and **COVID-19** positivity; individuals taking **PPIs** twice daily have higher odds for reporting a positive test when compared with those using lower-dose **PPIs** up to once daily, and those taking the less potent histamine-2 receptor antagonists are not at increased risk. These findings emphasize good clinical practice that **PPIs** ...

Cited by: 17

Author: Christopher V. Almario, William D. Chey, Bre...

Publish Year: 2020

## Proton pump inhibitors and the risk of severe COVID-19: a ...

<https://gut.bmj.com/content/early/2020/12/10/gutjnl-2020-323672> ▾

Dec 10, 2020 · **proton pump** inhibition; **COVID-19**; We appreciate the comment and discussion from Dr Roulet<sup>1</sup> on our original article.<sup>2</sup> The author criticised that (1) our study did not consider the dose-

**Name of Journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 61380

**Manuscript Type:** SYSTEMATIC REVIEWS

**Paradoxal relationship between proton pump inhibitors and COVID-19: A systematic review and meta-analysis**

**Proton pump inhibitors and COVID-19**

#### Abstract

##### BACKGROUND

The proton pump inhibitors (PPIs), employed to reduce gastric acid secretion, represent one of the most used pharmaceutical class in the world. Their consumption as a risk factor for the evolution in severe forms of SARS-CoV-2 infection has been explored as well as for the mortality of these patients. These risks appear to be also linked to the duration and the type of dosage. On the other hand, several studies are emerging regarding the protective or therapeutic effects of these drugs. More and more evidence

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Paradoxal relationship between proton pump inhibitors and COVID-



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### Proton pump inhibitors and the risk of severe COVID-19: a ...

<https://gut.bmj.com/content/early/2020/12/10/gutjnl-2020-323672> ▾

Dec 10, 2020 · **proton pump** inhibition; COVID-19; We appreciate the comment and discussion from Dr Roulet<sup>1</sup> on our original article.<sup>2</sup> The author criticised that (1) our study did not consider the dose-dependent exposure to **proton pump inhibitors** (PPIs); (2) our study did not investigate the **relationship** of PPI use in hospitalised patients with COVID-19 during treatment for COVID-19 and (3) although our ...

Author: Seung Won Lee, Jee Myung Yang, In ... Publish Year: 2020

### [PDF] American Journal of Gastroenterology

[https://webfiles.gi.org/links/media/ACG\\_Almario\\_et...](https://webfiles.gi.org/links/media/ACG_Almario_et...)

Jul 07, 2020 · Information Sheet and FAQs About Proton Pump Inhibitors (PPIs) and Risk of COVID-19 . About this Document . On July 7th, 2020, The American Journal of Gastroenterology released the following study examining the **relationship between** use of PPIs and risk of COVID-19: Almario CV, Chey WD, Spiegel BMR. Increased risk of COVID-19 among users of ...

### Proton Pump Inhibitors Linked With Increased Risk of ...

<https://www.everydayhealth.com/coronavirus/proton...> ▾

Jul 15, 2020 · Proton Pump Inhibitors Linked With Increased Risk of Contracting COVID-19. Taking a PPI twice a day associated with a nearly fourfold risk of testing positive for the virus.

### Increased Risk of COVID-19 Among Users of Proton Pump ...

<https://www.researchgate.net/publication/343898392...>

Aug 25, 2020 · We also showed in two independent cohorts of COVID-19 patients that previous use of **proton pump inhibitors** is associated with 2-to 3-fold higher risk of ...

### Proton Pump Inhibitors (PPIs) and COVID-19 Risk: What You ...

<https://gastrogirl.com/5153-2> ▾

Compared to those not using PPIs, those taking twice-daily PPIs registered a 3.7-fold increased odds of COVID-19, whereas those using PPIs up to once daily had a 2.2-fold increase. In contrast, people taking less powerful H2RAs were not at increased risk for COVID-19.