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**The gastric acid level of humans must decrease in the future**

Fujimori S *et al.* The future of gastric acid

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The gastric acid level of humans must decrease in the future



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## Gastric Acid - an overview | ScienceDirect Topics

<https://www.sciencedirect.com/topics/agricultural-and-biological-sciences/gastric-acid>

Gastric acid is a major defense mechanism that prevents many infectious agents from gaining **access to the intestinal tract since few bacteria can withstand the low pH of the stomach.** Hence, there is concern that a prolonged increase in gastric pH may result in complications.

## Gastrin Levels & Gastrin Hormone Test: Purpose, Procedure ...

<https://www.webmd.com/a-to-z-guides/what-is-a-gastrin-test> ▼

Mar 01, 2017 · They also cause your stomach to make less acid. In these settings, the gastrin level increases because **the pH of your stomach is too high (alkaline).** The pH scale measures how acidic something is.

### PEOPLE ALSO ASK

How does gastrin affect your stomach? ▼

What causes high levels of gastrin in the stomach? ▼

What does an increase in gastrin level mean? ▼

Feedback

## Gastric Balance: Heartburn Not Always Caused by Excess Acid

<https://nutritionreview.org/2018/11/gastric-balance-heartburn-caused-excess-acid>

Nov 25, 2018 · Surprisingly, one of the most common age-related causes of impaired digestive function is the reduction of hydrochloric acid produced by the stomach. Hydrochloric acid (HCl) is an important gastric secretion that enables the body to break down **proteins**, activate **important enzymes and hormones**, and protect against bacterial overgrowth in the gut.



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## [Gastric Balance: Heartburn Not Always Caused by Excess Acid](https://nutritionreview.org/2018/11/gastric-balance-heartburn-caused-excess-acid)

<https://nutritionreview.org/2018/11/gastric-balance-heartburn-caused-excess-acid> ▼

Nov 25, 2018 · Low Stomach Acid and Age. Numerous studies have shown that hydrochloric acid secretion declines with advancing age (Fig. 1). In one study US researchers found that over 30 percent of men and women past the age of 60 suffer from atrophic gastritis, a ...

## [Gastric Acid - an overview | ScienceDirect Topics](https://www.sciencedirect.com/.../gastric-acid)

<https://www.sciencedirect.com/.../gastric-acid>

In the setting of reduced or absent gastric acid, there is a **higher incidence of bacterial colonization of the upper small intestine**. Consequently, persons with hypochlorhydria or achlorhydria, or those using drugs such as proton-pump inhibitors that inhibit gastric acid secretion, are more susceptible to ...

## [Gastrin Levels & Gastrin Hormone Test: Purpose, Procedure ...](https://www.webmd.com/a-to-z-guides/what-is-a-gastrin-test)

<https://www.webmd.com/a-to-z-guides/what-is-a-gastrin-test> ▼

Mar 01, 2017 · Gastrin is a hormone that your **stomach** makes to fuel the release of **gastric acid**. Your body needs this to digest and absorb nutrients in your food, particularly proteins and amino acids.

### PEOPLE ALSO ASK

How does gastrin affect your stomach?



What is gastric secretion?



What are the dangers of low gastric acid?





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## Gastric Acid - an overview | ScienceDirect Topics

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## Gastric Balance: Heartburn Not Always Caused by Excess Acid

<https://nutritionreview.org/2018/11/gastric-balance-heartburn-caused-excess-acid> ▾

The human requirement for **vitamins, minerals and other nutrients** remains relatively constant throughout adult life. Unfortunately our ability to properly digest food and absorb vital nutrients declines with advancing age. Surprisingly, one of the most common age-related causes of impaired digestive function is the reduction of hydrochloric acid produced by the stomach.

## Association between Increased Gastric Juice Acidity and ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5249152>

**Gastric acid** secretion was evaluated using fasting **gastric** pH, a reliable indicator of **acid** secretion and acidity of **gastric** juice). **Gastric** juice samples were collected through a sterile tube during endoscopy, and their pH was measured with a glass electrode as described previously [13, 14, 16].

Cited by: 4

Author: Hiroshi Kishikawa, Kayoko Kimura, Asak...

Publish Year: 2017

### PEOPLE ALSO ASK

How does gastrin affect your stomach? ▾

What is gastric secretion? ▾

How to decrease stomach acid naturally? ▾

What causes high levels of gastrin in the stomach? ▾

## Gastric acid

Digestive Fluid

Gastric acid, gastric juice, or stomach acid, is a digestive fluid formed within the stomach lining. Composed of hydrochloric acid, potassium chloride, and sodium chloride, gastric acid plays a key role in digestion of proteins by activating digestive enzymes, which together break down the long chains of amino acids of proteins. Gastric acid is regulated in feedback systems to increase production when needed, such as after a meal. Other cells in the stomach produce bicarbonate, a base, to buffer the fluid, ensuring a regulated pH. These cells also produce mucus – a viscous barrier to prevent gastric acid from damaging the stomach. The pancreas further produces large amounts of bicarbonate and secretes bicarbonate through the pancreatic duct to the duodenum to neutralize gastric acid passing into the digestive tract.

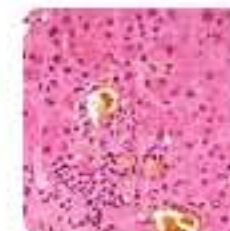
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