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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 63825

Manuscript Type: ORIGINAL ARTICLE

Observational Study

Effect of gastric microbiota on quadruple *Helicobacter pylori* eradication therapy containing bismuth

Zhan-Yue Niu, Si-Zhu Li, Yan-Yan Shi, Yan Xue

Abstract

BACKGROUND

Helicobacter pylori (*H. pylori*) is an important pathogen that can cause a variety of

Effect of gastric microbiota on quadruple *Helicobacter pylori* eradic:



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<https://gut.bmj.com/content/69/9/1598> ▾



Sep 01, 2020 · *Helicobacter pylori* eradication with bismuth quadruple therapy leads to dysbiosis of gut microbiota with an increased relative abundance of ...

Cited by: 30

Author: Yang Guo, Yang Zhang, Markus ...

Publish Year: 2020

[PDF] The Effect of Probiotics Supplementation on Gut ...

<https://link.springer.com/content/pdf/10.1007/s40121-020-00372-9.pdf>

Nov 11, 2020 · **impact of *H. pylori* eradication on the gut microbiota.** However, the **effects of probiotics supplementation on the eradication rate, homeostasis, and functional potential of gut microbiota after bismuth quadruple therapy** are still not clear. This is the first multicenter randomized trial to show the **effect of most common probiotics in China on gut microbiota**

Author: Bo Tang, Li Tang, Cheng Huang, Chua...

Publish Year: 2020

PEOPLE ALSO ASK

How does bismuth affect *Helicobacter pylori*? ▾

Can *Helicobacter pylori* cause gastric cancer? ▾

What is *Helicobacter pylori* infection? ▾

How to treat *H pylori* with clarithromycin? ▾

Feedback

Role of Bismuth in the Eradication of *Helicobacter pylori*

<https://pubmed.ncbi.nlm.nih.gov/26808355>

Bismuth exerts direct bactericidal effect on *Helicobacter pylori* by different ways: forms complexes in the bacterial wall and periplasmic space, inhibits different enzymes, ATP synthesis, and adherence of the bacteria to the **gastric mucosa**.

Cited by: 21

Author: Huseyin Alkim, Ali Riza Koksal, Salih Bo...

Publish Year: 2017

Effect of gastric microbiota on quadruple Helicobacter pylori eradication



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Bismuth quadruple therapy for H pylori eradication can restore the diversity of **gastric microbiota** with enrichment of beneficial bacteria. The composition of gut **microbiota** after **H pylori eradication** trends toward healthy status instead of becoming dysbiotic.

Cited by: 18

Author: Cong He, Chao Peng, Huan Wang, Yaobi...

Publish Year: 2019

High Effective of 14-Day High-Dose PPI- Bismuth-Containing ...

<https://pubmed.ncbi.nlm.nih.gov/31554388>

Conclusions: The 14-day high dose **PPI- bismuth-containing quadruple therapy with probiotic** can provide an excellent cure rate for **H. pylori infection** as first line treatment irrespective of CYP2C19 and antibiotic resistance pattern. **Adding probiotic** also significantly reduced treatment-related adverse events and improve the patients' compliance.



Helicobacter pylori

Symptoms

Diagnosis



Helicobacter pylori, previously known as Campylobacter pylori, is a gram-negative, microaerophilic, spiral bacterium usually

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The eradication of Helicobacter pylori restores rather ...

https://pubmed.ncbi.nlm.nih.gov/31124220

Bismuth quadruple therapy for H pylori eradication can restore the diversity of gastric microbiota with enrichment of beneficial bacteria. The composition of gut microbiota after H pylori eradication trends...

Cited by: 18 Author: Cong He, Chao Peng, Huan Wang, Yaobin O... Publish Year: 2019

Effect of Helicobacter pylori on gastrointestinal ...

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Sep 01, 2020 · Helicobacter pylori eradication with bismuth quadruple therapy leads to dysbiosis of gut microbiota with an increased relative abundance of Proteobacteria and decreased relative abundances ...

Cited by: 50 Author: Yang Guo, Yang Zhang, Markus Gerhard, Ju... Publish Year: 2020 Estimated Reading Time: 13 mins

PEOPLE ALSO ASK

How does bismuth affect Helicobacter pylori?

How does luminal bismuth exert its activity in the upper gastrointestinal tract?

Are there any antibiotic resistance to bismuth salts?

How does bismuth help in the treatment of ulcers?

Feedback

High Effective of 14-Day High-Dose PPI- Bismuth-Containing ...

https://pubmed.ncbi.nlm.nih.gov/31554388

Conclusions: The 14-day high dose PPI- bismuth-containing quadruple therapy with probiotic can provide an excellent cure rate for H. pylori infection as first line treatment irrespective of CYP2C19 and...

Cited by: 3 Author: Piyakorn Poonyam, Peranart Chotivitayatar... Publish Year: 2019

Ten-day bismuth-containing quadruple therapy is effective ...



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Helicobacter pylori

- Symptoms
- Diagnosis
- Causes
- Treatments

Helicobacter pylori, previously known as Campylobacter pylori, is a gram-negative, microaerophilic, spiral bacterium usually found in the stomach. Its helical shape is thought to have evolved in order to penetrate the mucoid lining of the stomach and thereby establish infection. The bacterium was first identified in 1982 by Australian doctors Barry Marshall and Robin Warren. H. pylori has been associated with lymphomas of the mucosa-associated lymphoid tissue in the stomach, esophagus, colon, rectum, or tissues around the eye, and of lymphoid tissue in the stomach.

Wikipedia

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