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Optimizing proton pump inhibitors in *Helicobacter pylori* treatment: Old and new tricks to improve effectiveness

Ierardi E *et al.* PPI and *H. pylori* eradication

Enzo Ierardi, Giuseppe Losurdo, Rosa Federica La Fortezza, Mariabeatrice Principi, Michele Barone, Alfredo Di Leo

Abstract

The survival and replication cycle of *Helicobacter pylori* (*H. pylori*) is strictly dependant on

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Currently, the most commonly used **therapy** for **gastric ulcers** is a combination of antibiotics and **proton pump inhibitors** that suppress or eradicate **Helicobacter pylori**. **H2 receptor** antagonists are used to **treat duodenal ulcers**. Bicarbonate salts are not used. ZES is the abbreviation for Zollinger-Ellison syndrome and not a **drug**.

25 Years of Proton Pump Inhibitors: A Comprehensive Review

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5221858>

Nov 14, 2016 · **Proton pump inhibitors** (PPIs) were clinically introduced more than 25 years ago and have since proven to be invaluable, safe, and effective agents for the management of a variety of acid-related disorders. Although all members in this class act in ...

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A meta-analysis of short versus long therapy with a proton ...

<https://onlinelibrary.wiley.com/doi/10.1046/j.1365-2036.2000.00744.x>

A meta-analysis of short versus long **therapy** with a **proton pump** inhibitor, clarithromycin and either metronidazole or amoxicillin for treating **Helicobacter pylori** infection Calvet Serveis de Medicina & Cirurgia i Epidemiologia Clínica, Corporació Sanitària Parc Taulí, Sabadell, Spain,

Changes in proton pump inhibitor prescribing trend over ...

<https://bmchealthservres.biomedcentral.com/articles/10.1186/s12913-018-3358-5> ▾

Jul 11, 2018 · **Proton pump inhibitors** (PPIs) remain one of the world's most frequently prescribed medications and there is a growing number of publications on correct versus incorrect use of PPIs worldwide. The objective of this observational retrospective study was to assess changes in PPI prescribing trends over the past decade and pharmacists' effect on **optimizing** PPI prescribing ...

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Treatment of Helicobacter pylori infection: Current and ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4714294>

Jan 16, 2016 · The effectiveness of a triple bismuth-consisting **regimen** along with **amoxicillin** and nifuratel used for eradication of **H. pylori** in patients were evaluated. The results of this study revealed the **therapy** containing **bismuth subcitrate**, amoxicillin and nifuratel yielded a ...

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Author: Maliheh Safavi, Reyhaneh Sabourian, Alir...

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The best and worst treatments for Helicobacter pylori ...

<https://www.bmj.com/content/351/bmj.h4146> ▾

Aug 19, 2015 · The efficacy of **standard triple treatment**, which includes a proton pump inhibitor, **clarithromycin**, and **amoxicillin** or **metronidazole** administered for seven days, is falling to unacceptable levels in most countries as the **antibiotic resistance** to **clarithromycin** and **metronidazole** increases.

Author: Barbara Braden Publish Year: 2015

Second and third line treatment options for Helicobacter ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3925860>

Feb 14, 2014 · **Ten-Day Quadruple Therapy** Comprising Proton-Pump Inhibitor, Bismuth, Tetracycline, and Levofloxacin Achieves a High Eradication Rate for *Helicobacter pylori* Infection after Failure of Sequential Therapy.

Cited by: 20 Author: Mingjun Song, Tiing Leong Ang
Publish Year: 2014

Primary Antimicrobial Susceptibility Changes in Children ...

europepmc.org/articles/PMC4438156

Dec 01, 2014 · Primary Antimicrobial Susceptibility Changes in Children with *Helicobacter pylori* Infection over 13 Years in Northern Italy Marco Manfredi , 1 , * Pierpacifico Gismondi , 1 Valentina Maffini , 1 Barbara Bizzarri , 2 Fabiola Fornaroli , 2 Carmen Madia , 1 Antonino Salerno , 1 A. Marta Cangelosi , 1 and Gian Luigi de'Angelis 1 , 2

Cited by: 8 Author: Marco Manfredi, Pierpacifico Gismondi, V...
Publish Year: 2015

Effective and safe proton pump inhibitor therapy in acid ...

<https://bmcmecine.biomedcentral.com/articles/10.1186/s12916-016-0718-z> ▾

Nov 09, 2016 · Background. The introduction of **proton pump inhibitors** (PPIs) into clinical practice has revolutionized the management of acid-related diseases. Studies in primary care and emerge

Cited by: 100 Author: Carmelo Scarpignato, Luigi Gatta, Angelo...
Publish Year: 2016

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https://www.academia.edu/21373803/Primary_Antimicrobial_Susceptibility_Changes_in... ▾

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Second and third line treatment options for Helicobacter ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3925860>

Feb 14, 2014 · Second and third line treatment options for **Helicobacter pylori** eradication. Mingjun Song and ... **Helicobacter pylori**, Treatment failure, Salvage therapy, Drug ... Yamato C, Manabe K, Kobayashi K, Chiba K, Ishizaki T. Comparison of the kinetic disposition and metabolism of E3810, a new proton pump inhibitor, and omeprazole in relation to S ...

Cited by: 20 Author: Mingjun Song, Tiing Leong Ang

Publish Year: 2014

The best and worst treatments for Helicobacter pylori ...

<https://www.bmj.com/content/351/bmj.h4146> ▾

Aug 19, 2015 · The best treatment will depend on local resistance patterns, but standard triple therapy is an increasingly unlikely candidate Since the isolation and identification of **Helicobacter pylori** by the consequently Nobel prize winning pathologist Barry Marshall and gastroenterologist Robin Warren in 1982,¹ it quickly became evident that half of the world's population is infected with this organism ...

Author: Barbara Braden Publish Year: 2015

UpToDate

<https://www.uptodate.com/contents/helicobacter-pylori-infection-and-treatment-beyond...>

Medications — No single drug cures **H. pylori** infection. Most treatment regimens involve taking several medications for 14 days. Most of the treatment regimens include a medication called a **proton pump inhibitor**. This medication decreases the stomach's production of acid, which allows the tissues damaged by the infection to heal.

Predicting Helicobacter pylori Eradication How to Teach an ...

https://www.researchgate.net/publication/221681984_Predicting_Helicobacter_pylori...

... **pylori**) eradication in a definite geographic area relies on different factors, such as the local availability of antimicrobial agents, the pattern of primary ...

Proton Pump Inhibitors | Information, Examples and Side ...

<https://patient.info/digestive-health/indigestion-medication/proton-pump-inhibitors> ▾

Mar 22, 2018 · **Proton pump inhibitors** (PPIs) reduce the amount of acid made by your stomach. ... As one part of treatment to get rid of **Helicobacter pylori** - a germ (bacterium) ... The Yellow Card Scheme is used to make pharmacists, doctors and nurses aware of any new side-effects that medicines or any other healthcare products may have caused. If you wish to ...

Author: Dr Colin Tidy