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Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 58783

Manuscript Type: META-ANALYSIS

PCR-based tests for detecting Helicobacter pylori clarithromycin resistance in stool samples:A meta-analysis

Stool PCR-based tests detecting clarithromycin resistance

Abstract

BACKGROUND

Helicobacter pylori (*H. pylori*) infection is closely associated with the etiology of a variety of gastric diseases. The effective eradication of *H. pylori* infection has been shown to reduce the incidence of gastric carcinoma. However, the rate of *H. pylori* eradication has significantly declined due to its increasing resistance to antibiotics, especially to clarithromycin. Therefore, the detection of clarithromycin resistance is necessary prior to the treatment of *H. pylori*. Although many studies have been conducted on the use of

PCR-based tests for detecting Helicobacter pylori clarithromycin res



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<https://jcm.asm.org/content/58/4/e01787-19> ▼

Mar 25, 2020 · The results of the **test on stools** were then compared with those of **tests** on two gastric biopsy samples, i.e., culture and/or **glmM PCR**, to evaluate the **detection of H. pylori** and Etest and/or a **quadruplex real-time PCR** (which **detect mutations** in the 23S rRNA genes) to evaluate the **detection of clarithromycin resistance**.

Cited by: 3**Author:** Maxime Pichon, Benoit Pichard, Thierry Bar...**Publish Year:** 2020

Detection of Clarithromycin-Resistant Helicobacter pylori ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC179782>

On this **basis** we have developed a new method, a **seminested PCR**, allowing screening for **clarithromycin resistance of H. pylori** directly on **stool samples**. This method furnished a 783-bp fragment of the 23S rRNA, which was subsequently digested by Mbo II, **Bsa I**, and Hha I, in order to identify single point mutations associated with **clarithromycin resistance**.

Cited by: 68**Author:** Carla Fontana, Marco Favaro, Antonio Pietr...**Publish Year:** 2003

A Novel Stool PCR Test for Helicobacter pylori May Predict ...

<https://jcm.asm.org/content/55/8/2400> ▼

Aug 01, 2017 · This **PCR test** using **stool specimens** is capable of sensitive **detection of H. pylori DNA in stool** while simultaneously **detecting mutations causing clarithromycin resistance**. There is a significant correlation between the presence of such mutations and the outcome of **clarithromycin-based eradication treatment**.

Cited by: 13**Author:** Erin Beckman, Ilaria Saracino, Giulia Fiorini,...

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<https://journals.sagepub.com/doi/pdf/10.1177/1756284820968736>

way to assess antibiotic **resistance**, as different **polymerase chain reaction-based** approaches have been developed as alternative methods. **For detecting** H. **pylori** antimicrobial **resistance**, a molecular approach based on a **stool** sample might enable more convenient, time-saving methods.

[Helicobacter pylori clarithromycin resistance detected by ...](#)

<https://onlinelibrary.wiley.com/doi/10.1111/j.1600-0463.2012.02896.x>

The aim of the work was to compare H. **pylori** **clarithromycin-resistance** according two methods. Etest was performed on H. **pylori** isolated from gastric biopsy **samples**. TaqMan Real-Time-PCR (RT-PCR) wa...

Cited by: 24

Author: Rosa Monno, Floriana Giorgio, Panella Car...

Publish Year: 2012

[Stool Polymerase Chain Reaction for Helicobacter pylori ...](#)

<https://www.researchgate.net/publication/40683792...>

Helicobacter pylori ClariRes assay is a novel commercially available real-time PCR assay allowing H. **pylori** **detection** and **clarithromycin** susceptibility **testing** in either gastric biopsy or **stool** ...

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