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Pathogenesis and clinical management of *Helicobacter pylori* gastric infection

de Brito BB *et al.* An overview of *Helicobacter pylori* infection

Breno Bittencourt de Brito, Filipe Antônio França da Silva, Aline Silva Soares, Vinícius

Afonso Pereira, Maria Luísa Cordeiro Santos, Mariana Miranda Sampaio, Pedro

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Abstract

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Published in: **Clinical Microbiology Reviews** · 2006

Authors: **Johannes G Kusters · Arnoud H M Van Vliet · Ernst J Kuipers**

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Fig. 1. Schematic diagram of **Helicobacter pylori infection** and **pathogenesis**. The urease activity and flagella-mediated motility of **H. pylori** facilitate its survival and movement toward the lower mucus gel above the epithelium, followed by several adhesins, including blood-antigen binding protein A, sialic acid-binding adhesin, and other outer membrane proteins interacting with receptors on the ...

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[PDF] American College of Gastroenterology Guideline on the ...

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Helicobacter pylori (H. pylori) infection causes a series of precancerous lesions like **gastritis**, atrophy, intestinal metaplasia and dysplasia, and is the strongest known risk factor for GC, as supported by epidemiological, **preclinical and clinical studies**.

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Gastric cancer (GC) is one of the most common carcinoma and the second leading cause of cancer-related deaths worldwide. Helicobacter pylori (H. pylori) infection causes a series of precancerous lesions like gastritis, atrophy, intestinal metaplasia and dysplasia, and is the strongest known risk factor for GC, as supported by epidemiological, preclinical and clinical studies.

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Helicobacter pylori (H. pylori) is the major stomach carcinogen, but the molecular mechanism responsible for the pathogenesis of cancer development mediated by H. pylori infection is still unclear.

[PDF] ACG Clinical Guideline: Treatment of Helicobacter pylori ...

https://accdn.gi.org/wp-content/uploads/2018/04/ACG-H_pylori-Guideline-Summary.pdf

Helicobacter pylori

Gram-Negative Microaerophilic Bacterium

Helicobacter pylori, previously known as Campylobacter pylori, is a Gram-negative, microaerophilic bacterium usually found in the stomach. It was identified in 1982 by Australian scientists Barry Marshall and Robin Warren, who found that it was present in a person with chronic gastritis and gastric ulcers, conditions not previously believed to have a microbial cause. It is also linked to the development of duodenal ulcers and stomach cancer. However, over 80% of individuals infected with the bacterium are asymptomatic, and it may play an important role in the natural stomach ecology.

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