



MAYO CLINIC
LABORATORIES

RAPIDLY DETECT *HELICOBACTER PYLORI* AND CALCULATE EFFECTIVE THERAPY

The Expanding Risks and Diagnostic Challenges of *Helicobacter pylori*

Helicobacter pylori is one of the most common chronic bacterial infections across the world. As the main cause of peptic ulcer disease and a major risk factor for gastric cancer, *H. pylori* can create life-threatening conditions if it remains untreated.

Timely and accurate diagnosis is critical for improving patients' gastrointestinal states and preventing further harm. Due to the rising prevalence of antimicrobial resistance, understanding who to test and how to select treatments pose significant clinical challenges for healthcare providers.

Receive the Right Answers Utilizing a Single Noninvasive Test

Mayo Clinic Laboratories' noninvasive *H. pylori* polymerase chain reaction assay is the only clinically available test of its kind in the microbiology industry, and delivers actionable results within 24 hours of the laboratory receiving a sample.



HPFRP | *Helicobacter pylori* with Clarithromycin Resistance Prediction, Molecular Detection, PCR, Feces

Clinical Utility

- Aids in the detection and diagnosis of *H. pylori* infection.
- Predicts clarithromycin resistance or susceptibility directly from stool to guide appropriate treatment.
- Monitors treatment efficacy.
- Assists with the global challenges to reduce antimicrobial drug resistance.

When Should I Order This Test?

Indications for testing include:

- Active or historical cases of peptic ulcer disease (unless *H. pylori* eradicated)
- Low-grade gastric mucosa-associated lymphoid tissue lymphoma, or history of endoscopic resection of early gastric cancer
- Uninvestigated dyspepsia
- Long-term NSAID or aspirin use
- Unexplained iron-deficiency anemia (after evaluation for other causes)
- Immune thrombocytopenia in adults

Collaborate with Mayo Clinic

Extend your network to include world-renowned clinical microbiology experts.



Robin Patel, M.D.

Division of Clinical Microbiology Chair
Infectious Diseases Research Laboratory Director
Bacteriology Laboratory Director



Audrey Schuetz, M.D.

Initial Processing and Media Laboratory Director
Bacteriology Laboratory Director



Elitza Theel, Ph.D.

Infectious Diseases Serology Laboratory Director
Vector-Borne Diseases Laboratory Director



Bobbi Pritt, M.D.

Clinical Parasitology Laboratory Director
Vector-Borne Diseases Laboratory Director

Additional *Helicobacter pylori* Infection Testing



HPSA | *Helicobacter pylori* Antigen, Feces

- Aids in the diagnosis of *H. pylori* infection.
- Monitors the eradication of *H. pylori* after therapy.



UBT | *Helicobacter pylori* Breath Test

- Diagnoses *H. pylori* infections in suspected patients.
- Monitors response to therapy.



HELIS | *Helicobacter pylori* Culture with Antimicrobial Susceptibilities, Varies

- Identifies recovery of *H. pylori* from gastric specimens for antimicrobial susceptibility testing of the organism. (Routinely test amoxicillin, ciprofloxacin, clarithromycin, metronidazole, and tetracycline.)therapy.

For Clinical or Technical Support Contact Our Specialists at **855-516-8404** or **1-855-379-3115** (International).

mayocliniclabs.com/microbiology

1. Chen D, Cunningham SA, Cole NC, Kohner PC, Mandrekar JN, Patel R. Phenotypic and molecular antimicrobial susceptibility of *Helicobacter pylori*. *Antimicrob Agents Chemother*. 2017;61(4):1–6.
2. Hooi JKY, Lai WY, Ng WK, Suen MMY, Underwood FE, Tanyingoh D, Malfertheiner P, Graham DY, Wong VWS, Qu JCY, Chan FKL, Sung JJY, Kaplan GG, Ng SC. Global prevalence of *Helicobacter pylori* infection: systematic review and meta-analysis. *Am J Gastroenterol*. 2017;153(2):420–429.
3. Savoldi A, Carrara E, Graham DY, Conti M, Tacconelli E. Prevalence of antibiotic resistance in *Helicobacter pylori*: a systematic review and meta-analysis in World Health Organization regions. *Gastroenterol*. 2018;155:1372–1382.

MAYO CLINIC LABORATORIES | 3050 Superior Drive NW | Rochester, MN 55901 | mayocliniclabs.com | 800-533-1710

©2019 Mayo Foundation for Medical Education and Research. All rights reserved. MAYO, MAYO CLINIC, Mayo Clinic Laboratories and the triple-shield Mayo logo are trademarks and service marks of MFMER.

MC2775-179