



## CLINICAL PRACTICE GUIDELINE FOR DIAGNOSIS AND MANAGEMENT OF HELICOBACTER PYLORI INFECTION IN GASTRODUODENAL DISEASES

- Title: Clinical Practice Guideline for Diagnosis and Management of Helicobacter pylori infection in gastroduodenal diseases
- Author: Peru. EsSalud Social Security. Health Technology Assessment and Research Institute (IETSI in Spanish)
- Publication date: December/2020
- **Publishing house:** EsSalud Social Security. "Health Technology Assessment and Research Institute (IETSI in Spanish)

## Abstract:

This paper abstracts the Clinical Practice Guideline for Diagnosis and Management of Helicobacter pylori infection in gastroduodenal diseases. To perform this CPG, a guideline task force (GTF) was formed with specialized physicians and methodologists, the group proposed 7 clinical questions to be answered in this Clinical practice guideline (CPG). To answer each question, systematic searches of preview reviews from PubMed and CENTRAL during December 2019 and March 2020 were performed. The evidence was selected aiming to answer each proposed question. Certainty of evidence was evaluated using Grading of Recommendations Assessment, Development, and Evaluation (GRADE) methodology. In periodical work sessions, the GTF used GRADE methodology for reviewing the evidence and formulating 12 recommendations (3 strong recommendations and 9 conditional recommendations), 17 good clinical practice items and 2 flowcharts (one about diagnosis and other about management). The CPG was approved by Resolution № 75-IETSI-ESSALUD-2020.

• **Key words:** Practice Guideline, Helicobacter Pylori, dyspepsia, peptic ulcer, Lymphoma, B-Cell, Marginal Zone, breath test, GRADE Approach

## PICO questions for CPG:

DIAGNOSIS						
Question 1: In people with gastroduodenal symptoms, should histological						
evaluation, breath test or serologic test be used for the diagnosis of Helicobacter						
Pylori infection?						
POPULATION	DIAGNOSTIC TEST	COMPARATOR	OUTCOME(S)			
	FOR					
	INTERVENTION					
Adults with	13C-urea breath	Serologic test	Diagnostic			
gastroduodenal	test		accuracy			
symptoms			Sensibility			
			Specificity			
			SROC curve			
			AUC			





TREATMENT  Question 2: In people with dyspepsia, should Helicobacter Pylori eradical treatment be provided?  POPULATION INTERVENTION COMPARATOR OUTCOME(S)  Adults with diagnosis of eradication dyspepsia and H. pylori infection Control Pylori eradication Ulcer developm Control Quality of life Adverse events					
Question 2: In people with dyspepsia, should Helicobacter Pylori eradical treatment be provided?POPULATIONINTERVENTIONCOMPARATOROUTCOME(SAdults with diagnosis of dyspepsia and H. pylori infectionHelicobacter Pylori eradication treatmentNo Helicobacter pylori eradication dyspeptic symptomsPylori eradication treatmenttreatment symptomsPlacebo ControlUlcer developm Quality of life					
treatment be provided?POPULATIONINTERVENTIONCOMPARATOROUTCOME(SAdults with diagnosis of dyspepsia and H. pylori infectionHelicobacter Pylori eradication treatmentNo Helicobacter Pylori eradication treatment Placebo ControlImprovement dyspeptic symptoms Ulcer developm Quality of life					
POPULATIONINTERVENTIONCOMPARATOROUTCOME(SAdults with diagnosis of dyspepsia and H. pylori infectionHelicobacter Pylori eradication treatmentNo Helicobacter Pylori eradication treatment Placebo ControlImprovement dyspeptic symptoms Ulcer developm Quality of life					
Adults with diagnosis of dyspepsia and H. pylori infection pylori infection Pylori eradication dyspepsia and H. pylori infection Polori infection Pylori eradication dyspeptic symptoms Placebo Control Quality of life					
diagnosis of dyspepsia and H. pylori infection pylori infection control pylori eradication treatment pylori infection pylori infection control pylori eradication dyspeptic symptoms placebo control quality of life					
dyspepsia and H. pylori infection treatment pylori infection treatment placebo Control treatment placebo Quality of life					
pylori infection Placebo Ulcer developm Control Quality of life					
Control Quality of life					
Adverse events					
Question 3: In people with peptic ulcer, should Helicobacter Pylori eradication					
treatment be provided?					
POPULATION INTERVENTION COMPARATOR OUTCOME(S					
Adults with Helicobacter Pylori No Helicobacter Ulcer healing					
diagnosis of peptic eradication Pylori eradication Ulcer recurrence					
ulcer and H. pylori treatment treatment Improvement					
infection Placebo dyspeptic					
Control symptoms					
Quality of life					
Adverse events					
Question 4: In people with gastric MALT lymphoma, should Helicobacter Pylori					
eradication treatment be provided?					
DODULATION INTERVENTION COMPARATOR OUTCOME					
POPULATION INTERVENTION COMPARATOR OUTCOME(S					
Helicobacter Pylori No Helicobacter Remission					
Helicobacter Pylori No Helicobacter Remission eradication Pylori eradication gastric M					
Helicobacter Pylori No Helicobacter Remission eradication Pylori eradication gastric M treatment treatment lymphoma					
Adults with diagnosis of gastric  Helicobacter Pylori eradication pylori eradication treatment treatment Placebo  No Helicobacter Remission gastric M lymphoma Progression					
Adults with diagnosis of gastric MALT lymphoma  Helicobacter Pylori eradication pylori eradication treatment treatment Placebo Control Remission gastric MALT lymphoma					
Adults with diagnosis of gastric MALT lymphoma and H. pylori					
Adults with diagnosis of gastric MALT lymphoma and H. pylori infection  Helicobacter Pylori eradication treatment  Helicobacter Pylori eradication pylori eradication treatment  Placebo Control  Control  No Helicobacter Pylori gastric M lymphoma progression gastric M lymphoma Mortality of gastric Mortality Mortal					
Adults with diagnosis of gastric MALT lymphoma and H. pylori infection  Helicobacter Pylori eradication treatment  Helicobacter Pylori eradication treatment  Placebo Control  No Helicobacter Pylori eradication gastric M lymphoma Progression Gontrol  Mortality of gast MALT lymphoma					
Adults with diagnosis of gastric MALT lymphoma and H. pylori infection  Helicobacter Pylori eradication treatment  Placebo Control  No Helicobacter Pylori gastric M lymphoma Progression Gontrol  Remission gastric M lymphoma Progression gastric M lymphoma Mortality of gast MALT lymphom Mortality file					
Adults with diagnosis of gastric MALT lymphoma and H. pylori infection  Helicobacter Pylori eradication treatment  Placebo Control  No Helicobacter Pylori eradication gastric M lymphoma Progression gastric M lymphoma Mortality of gas MALT lymphom Mortality frother causes					
Adults with diagnosis of gastric MALT lymphoma and H. pylori infection  Helicobacter Pylori eradication treatment  Helicobacter Pylori eradication treatment  Placebo Control  Control  Helicobacter Pylori eradication gastric M lymphoma Progression gastric M lymphoma Mortality of gas MALT lymphom Mortality frother causes Adverse events					
Adults with diagnosis of gastric MALT lymphoma and H. pylori infection  Infection  Helicobacter Pylori eradication treatment  Helicobacter Pylori eradication treatment  Placebo Control  Control  Helicobacter Pylori eradication gastric M lymphoma Progression Gontrol  Mortality of gast MALT lymphom Mortality of other causes Adverse events  Question 5: In people with Helicobacter pylori infection, what is the first-					
Adults with diagnosis of gastric MALT lymphoma and H. pylori infection  Adverse events  Question 5: In people with Helicobacter pylori eradication?  Helicobacter Pylori eradication pylori eradication treatment placebo Control  Control  No Helicobacter Pylori eradication gastric M lymphoma Progression gastric M lymphoma Mortality of gas MALT lymphom Mortality for other causes Adverse events  Question 5: In people with Helicobacter pylori infection, what is the first-treatment for Helicobacter pylori eradication?					
Adults with diagnosis of gastric MALT lymphoma and H. pylori infection  Question 5: In people with Helicobacter pylori eradication?  Helicobacter Pylori eradication treatment Placebo Control  No Helicobacter Pylori eradication gastric M lymphoma Progression gastric M lymphoma Mortality of gast MALT lymphom Mortality for other causes Adverse events  Question 5: In people with Helicobacter pylori infection, what is the first-treatment for Helicobacter pylori eradication?  POPULATION  INTERVENTION  COMPARATOR  OUTCOME(S					
Adults with diagnosis of gastric MALT lymphoma and H. pylori infection  Adverse events  Question 5: In people with Helicobacter pylori eradication?  POPULATION  Helicobacter Pylori eradication treatment placebo Control  No Helicobacter Pylori eradication gastric Molymphoma Progression gastric Molymphoma Mortality of gast MALT lymphom Mortality for other causes Adverse events  Comparation infection, what is the first-treatment for Helicobacter pylori eradication?  POPULATION  INTERVENTION  COMPARATOR  OUTCOME(S					
Adults with diagnosis of gastric MALT lymphoma and H. pylori infection  Question 5: In people with Helicobacter pylori eradication?  POPULATION  Helicobacter Pylori eradication treatment Placebo Control  No Helicobacter Pylori eradication gastric M lymphoma Progression gastric M lymphoma Mortality of gas MALT lymphom Mortality frother causes Adverse events  Question 5: In people with Helicobacter pylori infection, what is the first-treatment for Helicobacter pylori eradication?  POPULATION  INTERVENTION  COMPARATOR  OUTCOME(S  Terapia triple  Terapia secuencial  Terapia secuencial					
Adults with diagnosis of gastric MALT lymphoma and H. pylori infection  Question 5: In people with Helicobacter pylori eradication?  POPULATION  Adults with diagnosis of gastric MALT lymphoma and H. pylori infection  Population INTERVENTION  Helicobacter pylori eradication?  Population Intervence Pylori pylori eradication?  Population Intervence Pylori eradication for delicobacter pylori infection for delicobacter pylori infection for delicobacter pylori eradication?  Population Intervence Terapia triple Terapia secuencial infection for delicobacter pylori Terapia Terapia for delicobacter pylori eradicación del pylori Terapia for delicobacter pylori for delicobacter pyl					
Adults with diagnosis of gastric MALT lymphoma and H. pylori infection  Question 5: In people with Helicobacter pylori eradication?  POPULATION  Helicobacter Pylori eradication treatment Placebo Control  No Helicobacter Pylori eradication gastric M lymphoma Progression gastric M lymphoma Mortality of gas MALT lymphom Mortality frother causes Adverse events  Question 5: In people with Helicobacter pylori infection, what is the first-treatment for Helicobacter pylori eradication?  POPULATION  INTERVENTION  COMPARATOR  OUTCOME(S  Terapia triple Terapia secuencial  Terapia secuencial					





Question 6: In people with Helicobacter pylori infection that has not responded to					
first-line treatment, what should be the second-line treatment?					
POPULATION	INTERVENTION	COMPARATOR	OUTCOME(S)		
Adults with	Triple therapy	Triple therapy	Helicobacter pylori		
Helicobacter pylori	Quadruple therapy	Quadruple therapy	eradication		
infection that has	Sequential therapy	Sequential therapy	Secondary effects		
not responded to	Concomitant	Concomitant			
first-line treatment	therapy	therapy			

FOLLOW-UP						
Question 7: In people with Helicobacter pylori infection who have completed eradication treatment, what is the best test to confirm Helicobacter pylori eradication?						
POPULATION	INTERVENTION	COMPARATOR	OUTCOME(S)			
Adults with Helicobacter pylori infection who have completed eradication treatment	Breath test	Biopsy + histological test	<ul> <li>Diagnostic accuracy</li> <li>Sensibility</li> <li>Specificity</li> <li>SROC curve</li> <li>DOR</li> <li>True-positive</li> <li>False-positive</li> <li>True-Negative</li> <li>False-Negative</li> </ul>			