ANMC Helicobacter pylori Treatment Guideline

Background Information¹

- > 75% of the AN/AI population is colonized with *H. pylori* (range: 61-84%, by region)
- Screening or testing for *H. pylori* for routine evaluation of dyspepsia or other GI symptoms is not clinically useful or supported by clinical evidence for high prevalence populations
- For routine clinical practice, there is **insufficient evidence-based data** to support community-wide treatment eradication as a mechanism for gastric cancer prevention.
- Current literature DO NOT support a test and treat method

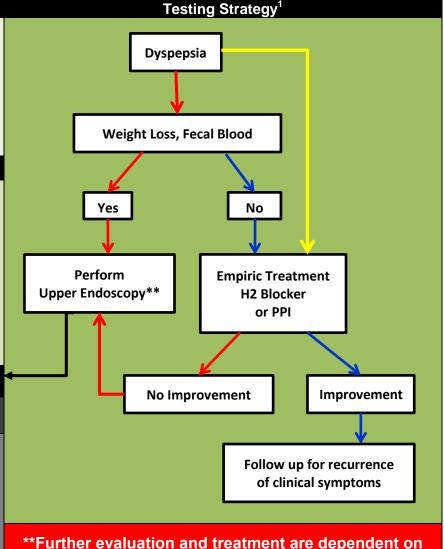
Local Antimicrobial Resistance Patterns⁵

Quadruple therapy is recommended over triple therapy in the AN/AI population due to resistance

- **⇒ 30-36% resistance** rate to <u>clarithromycin</u> with no significant differences between age groups or urban vs. rural setting
- ➡ 42-65% resistance to <u>metronidazole</u> with no difference between urban or rural settings but higher in females and patients aged 30-40 years of age (ie, prior metronidazole exposure)
- 0-5% resistance to amoxicillin
- ▶ 19- 26% resistance to levofloxacin with higher rates in urban vs rural setting
- No resistance to tetracycline
- No local surveillance data for rifabutin

When *H. pylori* is identified by histology and/or CLOtest from EGD, should treatment occur?¹

Yes	No (Many causes of dyspepsia exist where antibiotics would not help)		
Endoscopy reveals the following:	 Gastroesophageal reflux disease (GERD) Irritable bowel syndrome (IBS) Mild/moderate gastritis w/wo anemia 		
 Duodenal ulcers Gastric ulcers MALT lymphoma Intestinal metaplasia 	 Excessive/chronic NSAID use Heavy alcohol use Gastritis regardless of <i>H. pylori</i> status Poor gastric motility (bezoars or conditions predisposing to GI motility disorders such as scleroderma or diabetes) 		



*Further evaluation and treatment are dependent on findings of pathology found on endoscopy

ANMC Helicobacter pylori Treatment Guideline CONSIDERATIONS			
Pediatrics ²		Pregnancy & Lactation ^{3,4,7}	
 Goal is to <u>determine underlying cause</u> of symptoms, not solely the presence of <i>H. pylori</i> infection Diagnostic testing is NOT recommended with functional abdominal pain Consider formal consult with Gastroenterology 		Delay treatment until after pregnancy Do not use in PREGNANCY: bismuth and tetracycline Do not use with LACTATION: bismuth, metronidazole, levofloxacin	
Symptomatic Relief Medications		Eradication Testing ⁸	
Adults	Children	≥ 2 months after treatment completion	
 Ranitidine 150mg PO BID <u>OR</u> Omeprazole 20mg PO BID 	 Ranitidine 2.5-5mg/kg PO BID (max 150mg/dose) 	 UBT for test of cure is necessary to determine need for retreatment 10-35% of individuals will fail treatment Serologic testing is not recommended due to prolonged antibody persistence beyond date of cure and false positive results Must be off PPI ≥ 2 weeks prior to UBT 	
	Antibiotic Selec	ction ^{1,6,9}	
	Adults		Duration
Preferred Treatment (4 drug regimen)	 Metronidazole 500mg PO QID Amoxicillin 1000mg PO BID Omeprazole 20mg PO BID Bismuth subsalicylate 524mg PO QID 		14 days
PCN allergic (4 drug regimen)	 Metronidazole 500mg PO QID Doxycycline 100mg PO BID Omeprazole 20mg PO BID Bismuth subsalicylate 524mg PO QID 		14 days
Recurrence/Failure	Metronidazole 500mg PO QID Doxycycline 100mg PO BID Omeprazole 20mg PO BID Bismuth subsalicylate 524mg PO QID OR Amoxicillin 1000mg PO BID Levofloxacin 500mg PO Daily Omeprazole 20mg PO BID		14 days
If ≥ 1 treatment failure occurs or a different combination of antibiotics are needed, consider consultation with a clinical pharmacy or infectious diseases specialist.			