

First-line therapies for *H. pylori* infection

Regimen	Drugs (doses)	Dosing frequency	Duration (days)	FDA approval
Clarithromycin triple‡	PPI (standard* or double the standard dose)	Twice daily	14	Yes ¶
	Clarithromycin (500 mg)	Twice daily		
	Amoxicillin (1 gram) or Metronidazole (500 mg)	Twice daily (amoxicillin) Three times daily (metronidazole)		
Bismuth quadruple	PPI (standard dose*)	Twice daily	10 to 14 ^Δ	No [◇]
	Bismuth subcitrate (120 to 300 mg [not available in US] or 420 mg [available in North America and elsewhere as part of Pylera combination pill]) ^[1] or Bismuth subsalicylate (300 or 524 mg) ^[1]	Four times daily		
	Tetracycline (500 mg)	Four times daily		
	Metronidazole (250 to 500 mg)	Four times daily (250 mg)		
		Three to four times daily (500 mg)		
Clarithromycin-based concomitant‡	PPI (standard dose*)	Twice daily	10 to 14	No
	Clarithromycin (500 mg)	Twice daily		
	Amoxicillin (1 gram)	Twice daily		
	Metronidazole or tinidazole (500 mg)	Twice daily		
Clarithromycin-based sequential§‡	PPI (standard dose*) plus amoxicillin (1 gram) for 5 days followed by:	Twice daily	10 (total)	No
	PPI, clarithromycin (500 mg) plus either metronidazole or tinidazole (500 mg) for an additional 5 days	Twice daily		
Clarithromycin-based hybrid¶‡	PPI (standard dose*) plus amoxicillin (1 gram) for 7 days followed by:	Twice daily	14 (total)	No
	PPI, amoxicillin, clarithromycin (500 mg), plus either metronidazole or tinidazole (500 mg) for an additional 7 days	Twice daily		

FDA: United States Food and Drug Administration; PPI: proton pump inhibitor.

* Standard doses of orally administered proton pump inhibitors include: lansoprazole 30 mg daily, omeprazole 20 mg daily, pantoprazole 40 mg daily, rabeprazole 20 mg daily, or esomeprazole 20 mg daily.

¶ Several PPI, clarithromycin, and amoxicillin combinations have achieved FDA approval. PPI, clarithromycin, and metronidazole is not an FDA-approved treatment regimen.

Δ 14 days is recommended. Refer to UpToDate topic on treatment for *H. pylori* infection.

◇ PPI, bismuth, tetracycline, and metronidazole prescribed separately is not an FDA-approved treatment regimen. However, Pylera, a combination product containing bismuth subcitrate, tetracycline, and metronidazole combined with a PPI for 10 days is an FDA-approved treatment regimen.

§ Some North American guidelines do not support the use of sequential therapy.