

Clinical Policy: Proton Pump Inhibitors

Reference Number: CP.CPA.209

Effective Date: 11.16.16 Last Review Date: 11.23 Line of Business: Commercial

Revision Log

See <u>Important Reminder</u> at the end of this policy for important regulatory and legal information.

Description

The following are proton pump inhibitors (PPIs) requiring prior authorization: rabeprazole (AcipHex[®], AcipHex[®] Sprinkle), dexlansoprazole (Dexilant[®]), esomeprazole strontium (ES), esomeprazole (Nexium[®], Nexium[®] 24HR, Nexium[®] 24HR ClearMinis[™]), omeprazole (Prilosec[®] Packets), lansoprazole (Prevacid[®] SoluTabs[™]), omeprazole/sodium bicarbonate (Konvomep[™], Zegerid[®], Zegerid[®] OTC).

FDA Approved Indication(s)

Indication	Aciphex	Aciphex Sprinkle	Dexilant	Nexium	Prilosec	Prevacid	Konvomep, Zegerid	ES
Duodenal ulcers	X			*	X	X	X^{\dagger}	
Duodenal ulcers,					*	X		
maintenance					·	Λ		
Duodenal ulcers, giant					*			
Erosive esophagitis	X		X^	X^	X [^]	$\mathbf{X}^{^{\wedge}}$	X^{\dagger}	X
Erosive esophagitis, Maintenance	X		X [^]	X	X^	X	X^{\dagger}	X
Gastric ulcers	*				X	X	X	
Nonsteroidal anti- inflammatory drug (NSAID)-associated gastric ulcer, risk reduction	*			X	*	X		X
NSAID-associated gastric ulcer, healing of				*	*	X		
Helicobacter pylori (H. pylori) Triple Therapy	X			X	X	X		X
H. pylori Dual Therapy					X	X		
H. pylori Quadruple therapy	*			*	*	*		
Pathological hypersecretory conditions, including Zollinger-Ellison Syndrome	X			X	X	X		X
Symptomatic gastroesophageal reflux disease (GERD) (erosive/ulcerative)	X	Xp		X^	X^	X^	Χ [†]	X



Indication	Aciphex	Aciphex Sprinkle	Dexilant	Nexium	Prilosec	Prevacid	Konvomep, Zegerid	ES
Symptomatic GERD, maintenance (erosive/ulcerative)	X							
Symptomatic GERD (non-erosive)	\mathbf{X}^{\wedge}		X^	X		X^		X
Indigestion	*			*	*			
Drug-induced gastrointestinal (GI) disturbance					*			
Esophageal stricture					*			
Heartburn			X [^]	$\mathbf{X}^{^{\wedge}}$		*		
Reduction of risk of upper GI bleed in critically ill patients					*	*	X	

^{*}Clinical trials have demonstrated the efficacy and safety for these indications, although not currently FDA-approved.

Policy/Criteria

Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

It is the policy of health plans affiliated with Centene Corporation[®] that Aciphex/Aciphex Sprinkle, Dexilant, esomeprazole strontium, Konvomep, Nexium/Nexium 24HR/Nexium 24HR ClearMinis, Prilosec Packets, Prevacid SoluTabs, and Zegerid/Zegerid OTC are **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

- A. All Indications (must meet all):
 - 1. Prescribed for one of the following uses (a, b, c, d, e, or f):
 - a. Symptomatic GERD, including heartburn or laryngopharyngeal reflux;
 - b. Esophageal complications of GERD (e.g., erosive esophagitis, esophageal stricture, Barrett's esophagus, and Schatzki's ring);
 - c. Extra-esophageal complications (e.g., laryngopharyngeal reflux, vocal cord damage/nodules, asthma, laryngitis, and pharyngitis);
 - d. Peptic ulcer disease (e.g., gastric ulcers, duodenal ulcers, *H. pylori* and Zollinger-Ellison syndrome);
 - e. Gastrointestinal bleed prophylaxis for NSAID use and member meets at least one of the following (i, ii, or iii):
 - i. History of peptic ulcer disease;
 - ii. Age \geq 60 years;
 - iii. Concurrent therapy with anticoagulants (e.g., warfarin, aspirin, clopidogrel) or oral corticosteroids (e.g., prednisone);
 - f. Reduction of risk of upper gastrointestinal bleed in critically ill patients and request is for Konvomep or Zegerid oral suspension;
 - 2. For lansoprazole disintegrating tablets or AcipHex Sprinkle: age ≥ 1 year old;

[^] Includes adults and pediatrics

^PPediatrics only

[†]Zegerid only



- 3. Member meets any of the following (a, b, c, d, or e):
 - a. Age < 12 years and request is for lansoprazole disintegrating tablets, AcipHex Sprinkle, or Prilosec packets;
 - b. Presence of G-tube or significant dysphagia and request is for Prevacid SoluTabs, Prilosec packets, or omeprazole/sodium bicarbonate: Failure of a ≥ 4-week trial of omeprazole and lansoprazole capsules, at up to maximally indicated doses, unless contraindicated or clinically significant adverse effects are experienced (chart note documentation may be required);
 - c. Currently on clopidogrel and request is for Dexilant, both of the following (i and ii):
 - i. Failure of a \geq 4-week trial of pantoprazole tablets at up to maximally indicated doses, unless contraindicated or clinically significant adverse effects are experienced;
 - ii. Member must use generic dexlansoprazole, unless contraindicated or clinically significant adverse effects are experienced;
 - d. Request is for esomeprazole, lansoprazole disintegrating tablets, omeprazole suspension, omeprazole/sodium bicarbonate, or rabeprazole: Failure of a ≥ 4-week trial of ALL of the following preferred generic PPIs at up to maximally indicated doses, unless all are contraindicated or clinically significant adverse effects are experienced: omeprazole capsules, pantoprazole tablets, and lansoprazole capsules;
 - e. Request is for Dexilant, both of the following (i and ii):
 - i. Failure of a \geq 4-week trial of ALL of the following preferred generic PPIs at up to maximally indicated doses, unless all are contraindicated or clinically significant adverse effects are experienced: omeprazole capsules, pantoprazole tablets, and lansoprazole capsules;
 - ii. Member failed, had intolerance, or is contraindicated to omeprazole capsules, pantoprazole tablets, and lansoprazole capsules: Member must use generic dexlansoprazole, unless contraindicated or clinically significant adverse effects are experienced;
- 4. For BID dosing requests of non-preferred agents for conditions other than *H. pylori* or pathological hypersecretory conditions, including Zollinger-Ellison syndrome: Member must be titrated up from once daily dosing;
- 5. Dose does not exceed the FDA-approved maximum recommended dose (refer to Section V).

Approval duration: 12 months or duration of request, whichever is less

B. Other diagnoses/indications (must meet 1 or 2):

- 1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to one of the following policies (a or b):
 - a. For drugs on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial; or



- b. For drugs NOT on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the non-formulary policy for the relevant line of business: CP.CPA.190 for commercial; or
- 2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy for the relevant line of business: CP.CPA.09 for commercial.

II. Continued Therapy

A. All Indications in Section I (must meet all):

- 1. Member meets one of the following (a or b):
 - a. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
 - b. Member is currently receiving medication and is enrolled in a state and product with continuity of care regulations (refer to state specific addendums for CC.PHARM.03A and CC.PHARM.03B);
- 2. Member is responding positively to therapy;
- 3. If request is for Dexilant, member must use generic dexlansoprazole, unless contraindicated or clinically significant adverse effects are experienced;
- 4. If request is for a dose increase, new dose does not exceed the FDA-approved maximum recommended dose (refer to Section V).

Approval duration: 12 months or duration of request, whichever is less

B. Other diagnoses/indications (must meet 1 or 2):

- 1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to one of the following policies (a or b):
 - a. For drugs on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the no coverage criteria policy for the relevant line of business: CP.CPA.190 for commercial; or
 - b. For drugs NOT on the formulary (commercial, health insurance marketplace) or PDL (Medicaid), the non-formulary policy for the relevant line of business: CP.CPA.190 for commercial; or
- 2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy for the relevant line of business: CP.CPA.09 for commercial.

III. Diagnoses/Indications for which coverage is NOT authorized:

A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policies – CP.CPA.09 for commercial.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key

EE: erosive esophagitis ES: esomeprazole strontium



FDA: Food and Drug Administration GERD: gastroesophageal reflux disease

GI: gastrointestinal

H. pylori: Helicobacter pylori

NSAID: non-steroidal anti-inflammatory

drug

PPI: proton pump inhibitor

Appendix B: Therapeutic Alternatives

This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent for all relevant lines of business

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Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
. 1		
pantoprazole	Short-term treatment of erosive esophagitis	40 mg/day (240
tablets and	associated with GERD	mg/day for
suspension	Adult and pediatric (age ≥ 5 years and weight ≥ 40	pathological
(Protonix)	<u>kg):</u> 40 mg PO QD	hypersecretory
	Pediatric (age ≥ 5 years and weight ≥ 15 kg to < 40	conditions)
	<u>kg):</u> 20 mg PO QD	
	Maintenance of healing of erosive esophagitis	
	40 mg PO QD	
	Pathological hypersecretory conditions,	
	including Zollinger-Ellison Syndrome	
	40 mg PO BID	
omeprazole	Duodenal ulcer	40 mg/day (360
capsules	20 mg PO QD	mg/day for
(Prilosec)		pathological
	Symptomatic GERD; Erosive esophagitis	hypersecretory
	(treatment and maintenance)	conditions)
	Adult: 20 mg PO QD	
	Pediatric (age 1 to 16 years):	
	Weight 5 kg to \leq 10 kg: 5 mg	
	Weight 10 kg to < 20 kg: 10 mg	
	Weight \geq 20 kg: 20 mg	
	Pediatric (age 1 month to < 1 year):	
	Weight 5 kg to \leq 10 kg: 5 mg	
	Weight $\geq 10 \text{ kg}$: 10 mg	
	H. pylori	
	Triple therapy: 20 mg PO BID for 10 days, in	
	combination with amoxicillin and clarithromycin	
	Dual therapy: 40 mg PO QD for 14 days, in	
	combination with clarithromycin 40 mg/day	
	Gastric ulcer	
	40 mg PO QD	



Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
	Pathological hypersecretory conditions, including Zollinger-Ellison syndrome	
	60 mg PO QD to 80 mg/day PO in divided doses	
lansoprazole	Duodenal ulcers, risk reduction of NSAID-	30 mg/day (180
capsules	associated gastric ulcer, maintenance of healing	mg/day for
(Prevacid)	of erosive esophagitis	pathological
	15 mg PO QD	hypersecretory conditions)
	Short-term treatment of symptomatic GERD	
	and erosive esophagitis	
	Adult: 15 to 30 mg PO QD	
	Pediatric (age 1 to 11 years):	
	Weight > 30 kg: 30 mg PO QD	
	Weight ≤ 30 kg: 15 mg PO QD	
	Pediatric (age 12 to 17 years):	
	Non-erosive GERD: 15 mg	
	Erosive esophagitis: 30 mg	
	H. pylori	
	Triple therapy: 30 mg PO BID for 10 or 14 days in	
	combination with amoxicillin and clarithromycin	
	Dual therapy: 30 mg PO TID for 14 days in	
	combination with amoxicillin	
	Benign gastric ulcer, healing of NSAID-	
	associated gastric ulcer	
	30 mg PO QD	
	Pathological hypersecretory conditions,	
	including Zollinger-Ellison syndrome	
	60 mg PO QD	

Therapeutic alternatives are listed as Brand name® (generic) when the drug is available by brand name only and generic (Brand name®) when the drug is available by both brand and generic.

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s):
 - O All agents: hypersensitivity (e.g., to drug or other PPIs, substituted benzimidazoles, or to any components of the formulation)
 - o All agents except esomeprazole strontium: coadministration with rilpivirine-containing products
- Boxed warning(s): none reported



Appendix D: General Information

- Dexilant 60 mg vs. Prevacid 30 mg in EE was evaluated in two studies. Non-inferiority was demonstrated in both studies, but superiority was demonstrated in only one study.
- Dexilant 90 mg was studied and did not provide additional clinical benefit over Dexilant 60 mg in EE.
- Over 90% of gastric and duodenal ulcers heal within 8 weeks of PPI therapy.
- Patients with PUD (DU or GU) should be tested for H. pylori and treated, if positive.
- For Laryngopharyngeal reflux (LPR), the American Academy of Otolaryngology recommends twice-daily dosing with PPIs for a minimum period of 6 months with the possibility of chronic treatment. BID dosing of PPIs has been shown to be superior to QD dosing in LPR.
- Two capsules of Zegerid 20 mg are not interchangeable with one capsule of Zegerid 40 mg because each capsule or packet contains the same amount of sodium bicarbonate.
- Pediatric patients: The safety and efficacy of Konvomep, Zegerid, and Protonix in children have not been established. The safety and efficacy of Dexilant have been established in pediatric patients 12 years of age and older. The safety and efficacy of Prevacid have been established in pediatric patients 1 to 17 years of age. The safety and efficacy of omeprazole have been established in pediatric patients 1 to 16 years of age. The safety and efficacy of Nexium have been established in pediatric patients 1 to 17 years of age for up to 8 weeks. The safety and efficacy of Aciphex have been established in pediatric patients 1 year and older for up to 36 weeks.
- Safety and efficacy of proton pump inhibitors have not been established in patients less than 1 year of age. Lansoprazole was no more effective than placebo in patients 1 month to less than 1 year of age with symptomatic GERD in a multi-center, double-blind, placebo controlled study (Orenstein et al, 2009). Studies with Aciphex Sprinkle do not support its use for the treatment of GERD in pediatric patients younger than 1 year of age.
- Prevacid has a non FDA-approved, Class IIa strength recommendation for H. pylori quadruple therapy per Micromedex.
- Aciphex has a non FDA-approved, Class IIa strength recommendation for H. pylori quadruple therapy and indigestion per Micromedex, and a Class IIb strength recommendation for gastric ulcer.
- According to their respective package inserts, concomitant administration of either pantoprazole or dexlansoprazole with clopidogrel in healthy subjects had no clinically important effect on exposure to the active metabolite of clopidogrel or clopidogrel-induced platelet inhibition. No dose adjustment of clopidogrel is necessary when administered with an approved dose of Protonix or Dexilant. American Hospital Formulary Service Drug Information further states, "If concomitant proton-pump inhibitor therapy [with clopidogrel] is considered necessary, some clinicians suggest the use of pantoprazole, which appears to be the weakest inhibitor of cytochrome P450 2C19 (CYP2C19) among proton-pump inhibitors."

V. Dosage and Administration

Drug Name	Indication	Dosing Regimen	Maximum Dose
rabeprazole	Duodenal ulcers; Erosive	20 mg PO QD (BID	20 mg/day
(Aciphex)	esophagitis; <i>H. pylori</i> triple	for H. pylori)	



Drug Name	Indication	Dosing Regimen	Maximum Dose
	therapy; Symptomatic	(treatment duration	(40 mg/day for
	GERD (erosive/ulcerative),	varies)	H. pylori)
	healing and maintenance;	60 mg PO QD to 60	120 mg/day
	Pathological hypersecretory conditions, including	mg PO BID	120 mg/day
	Zollinger-Ellison		
	syndrome		
rabeprazole	Symptomatic GERD	Pediatric	10 mg/day
sodium	(erosive/ulcerative)	Age 1 to 11 years:	
delayed-release		Weight < 15 kg: 5 to 10 mg PO QD	
(Aciphex Sprinkle)		Weight $\geq 15 \text{ kg: } 10$	
Sprinkie)		mg PO QD	
dexlansoprazole	Healing of erosive	60 mg PO QD	60 mg/day
(Dexilant)	esophagitis		
	Maintenance of healed	30 mg PO QD	30 mg/day
	erosive esophagitis and relief		
	of heartburn; Symptomatic non-erosive GERD		
esomeprazole	GERD (including erosive	Adult	80 mg/day
(Nexium,	esophagitis, symptomatic	20 to 40 mg PO QD	S J
Nexium 24HR,	GERD)	to BID	
Nexium 24HR		- ·	
Clear Minis)		Pediatric	
		Age 1 to 11 years: 10 to 20 mg PO QD	
		Age 12 to 17 years:	
		20 to 40 mg PO QD	
		Age 1 month to ≤ 1	
		year:	
		Weight 3 kg to 5 kg: 2.5 mg PO QD	
		Weight $> 5 \text{ kg to } 7.5$	
		kg: 5 mg PO QD	
		Weight $> 7.5 \text{ kg to}$	
		12 kg: 10 mg PO	
	Distruction of NCAID	QD	40 m a/day
	Risk reduction of NSAID- associated gastric ulcer	20 mg to 40 mg PO QD	40 mg/day
	H. pylori triple therapy	40 mg PO QD for 10	40 mg/day
	11. Pyron alpio molupy	days, in combination	. o mg, uuj
		with amoxicillin and	
		clarithromycin	



Drug NameIndicationDosing RegimenMaxingPathological hypersecretory conditions, including Zollinger-Ellison Syndrome40 mg PO BID240 mg	mum Dose ng/day
701linger Ellison Syndroma	
Zominger-Emison Syndrome	
omeprazole Duodenal ulcer 20 mg PO QD 20 mg	g/day
(Prilosec Symptomatic GERD; Adult 20 mg	g/day
Packets) Erosive esophagitis 20 mg PO QD	
(treatment and maintenance)	
Pediatric	
Age 1 to 16 years	
Weight 5 kg to < 10 kg: 5 mg PO QD	
Weight 10 kg to <	
20 kg: 10 mg PO	
QD QD	
Weight $\geq 20 \text{ kg: } 20$	
mg QD	
Age 1 month to ≤ 1	
year (for EE only)	
Weight 3 kg to < 5	
kg: 2.5 mg PO QD	
Weight 5 kg to < 10	
kg: 5 mg PO QD	
Weight ≥ 10 kg: 10	
mg PO QD H. pylori Triple therapy: 20 40 mg	r/day
mg PO BID for 10	y uay
days, in combination	
with amoxicillin and	
clarithromycin	
Dual therapy: 40 mg	
PO QD for 14 days,	
in combination with	
clarithromycin	/ 1
Gastric ulcer 40 mg PO QD 40 mg	
Pathological hypersecretory 60 mg PO QD to 80 360 m	ig/day
conditions, including mg/day PO in	
Zollinger-Ellison Syndrome divided doses lansoprazole Duodenal ulcers 15 mg PO QD 90 mg	r/day
lansoprazole (Prevacid H. pylori 15 mg PO QD 90 mg Triple therapy: 30 90 mg	
SoluTab) In pytori In pyto	, aay
to 14 days, in	
combination with	
amoxicillin and	
clarithromycin	



Drug Name	Indication	Dosing Regimen	Maximum Dose
		Dual therapy: 30 mg PO TID for 14 days, in combination with amoxicillin	
	Gastric ulcer (including benign and healing of NSAID-associated gastric ulcers); Treatment of erosive esophagitis	Adult 30 mg PO QD (treatment duration varies) Pediatric for EE Age 1-11 years Weight ≤ 30 kg: 15 mg PO QD Weight > 30 kg: 30 mg PO QD Age 12-17 years	30 mg/day
	Risk reduction of NSAID- associated gastric ulcers; Symptomatic GERD; Maintenance of healing of erosive esophagitis	30 mg PO QD 15 mg PO QD (treatment duration varies) Pediatric for GERD Age 1-11 years Weight ≤ 30 kg: 15 mg PO QD Weight > 30 kg: 30 mg PO QD Age 12-17 years 15 mg PO QD	30 mg/day
	Pathological hypersecretory conditions, including Zollinger-Ellison Syndrome	60 mg PO QD to 90 mg/day PO BID	180 mg/day
omeprazole/ sodium	Benign gastric ulcer	40 mg PO QD for 4 to 8 weeks	40 mg/day
bicarbonate (Konvomep)	Reduction of risk of upper GI bleeding in critically ill patients	40 mg PO initially, followed by 40 mg PO 6 to 8 hours later, then 40 mg PO QD for 14 days	40 mg/day
omeprazole/ sodium bicarbonate	Duodenal ulcer; Symptomatic GERD; Erosive esophagitis (treatment and maintenance)	20 mg PO QD (treatment duration varies)	40 mg/day



Drug Name	Indication	Dosing Regimen	Maximum Dose
(Zegerid,	Benign gastric ulcer	40 mg PO QD	40 mg/day
Zegerid OTC)	Reduction of risk of upper	40 mg oral	40 mg/day
	GI bleeding in critically ill	suspension only: 40	
	patients	mg PO initially,	
		followed by 40 mg	
		PO 6 to 8 hours	
		later, then 40 mg PO	
		QD for 14 days	
esomeprazole	Treatment of erosive	24.65 to 49.3 mg PO	49.3 mg/day
strontium	esophagitis; Risk reduction	QD (treatment	
	of NSAID-associated gastric	duration varies)	
	ulcers		
	Symptomatic GERD;	24.65 mg PO QD	24.65 mg/day
	Maintenance of healing of		
	erosive esophagitis	40.2 PO OD C	40.2 /1
	H. pylori triple therapy	49.3 mg PO QD for	49.3 mg/day
		10 days in	
		combination with	
		amoxicillin and	
	Doth alogical by manager to my	clarithromycin	240 m a/day
	Pathological hypersecretory	49.3 mg PO BID	240 mg/day
	conditions, including		
	Zollinger-Ellison Syndrome		

VI. Product Availability

Drug Name	Availability
rabeprazole (Aciphex)	Tablets, delayed-release: 20 mg
rabeprazole (Aciphex Sprinkle)	Capsules, delayed-release: 5 mg, 10 mg
dexlansoprazole (Dexilant)	Capsules, delayed-release: 30 mg, 60 mg
esomeprazole (Nexium)	Capsules, delayed-release: 20 mg, 40 mg
	• Packets, powder for delayed-release oral suspension: 2.5 mg, 5 mg, 10 mg, 20 mg, 40 mg
lansoprazole (Prevacid	Tablets, delayed-release orally disintegrating: 15 mg, 30
Solutabs)	mg
omeprazole (Prilosec Packets)	Packets, powder for delayed-release oral suspension: 2.5 mg, 10 mg
omeprazole/sodium bicarbonate (Konvomep)	Oral suspension: 2 mg/84 mg/mL after reconstitution in 90 mL, 150 mL, or 300 mL bottles
omeprazole/sodium	• Capsules: 20 mg/1,100 mg, 40 mg/1,100 mg
bicarbonate (Zegerid)	• Unit-dose packets for oral suspension: 20 mg/1,680 mg, 40 mg/1,680 mg
esomeprazole strontium	Capsules, delayed-release: 24.65 mg (equivalent to 20 mg esomeprazole), 49.3 mg (equivalent to 40 mg esomeprazole)



Drug Name	Availability
Available OTC products	
omeprazole/sodium	Capsules: 20 mg/1,100 mg
bicarbonate (Zegerid OTC)	
esomeprazole (Nexium 24HR)	Tablets, delayed-release: 20 mg
esomeprazole (Nexium 24HR	Capsules, delayed-release: 20 mg
ClearMinis)	

VII. References

- 1. Abraham NS, Hlatky MA, Antman EM, et al. ACCF/ACG/AHA 2010 expert consensus document on the concomitant use of proton pump inhibitors and thienopyridines: a focused update of the ACCF/ACG/AHA 2008 expert consensus document on reducing the gastrointestinal risks of antiplatelet therapy and NSAID use: a report of the American College of Cardiology Foundation Task Force on Clinical Expert Consensus Documents. J Am Coll Cardiol 2019;62(24):2051-2066. doi:10.1016/j.jacc.2010.09.010
- 2. Badillo R and Francis D. Diagnosis and treatment of gastroesophageal disease. World J Gastrointest Pharmcol Ther 2014; 5(3): 105-112. DOI: 10.4292/wjgpt.v5.i3.105
- 3. Laine L and Jensen DM. Management of patients with ulcer bleeding. Am J Gastroenterol 2012; 107:345-360.
- 4. Katz PO, Dunbar KB, Schnoll-Sussman FH, et al. ACG clinical guideline for the diagnosis and management of gastroesophageal reflux disease. Am J Gastroenterol 2022;117:27-56.
- 5. Shaheen N, Falk G, Iyer P, et al. Diagnosis and management of Barrett's esophagus: an updated ACG guideline. Am J Gastroenterol 2022; 117:559-87.
- 6. Laryngopharyngeal reflux: Position statement of the Committee on Speech, Voice, and Swallowing Disorders of the American Academy of Otolaryngology-Head and Neck Surgery. Otolaryngology-Head and Neck Surgery. 2002;127:30-35
- 7. Laryngopharyngeal Reflux: Prospective Cohort Study Evaluating Optimal Dose of Proton-Pump Inhibitor Therapy and Pretherapy Predictors of Response. Laryngoscope. 2005; 115.
- 8. Li MJ, Li Q, Sun M, Liu LQ. Comparative effectiveness and acceptability of the FDA-licensed proton pump inhibitors for erosive esophagitis: A PRISMA-compliant network meta-analysis. Medicine (Baltimore). 2017;96(39):e8120.
- 9. Shah SC, Iyer PG, Moss SF. AGA clinical practice update on the management of refractory *Helicobacter pylori* infection: expert review. Gastroenterology 2021;160(5):1831-41.

Prescribing Information

- 10. Aciphex Prescribing Information. Woodcliff Lake, NJ: Eisai, Inc; July 2023. Available at: https://www.accessdata.fda.gov/drugsatfda_docs/label/2023/020973s043lbl.pdf. Accessed August 16, 2023.
- 11. Aciphex Sprinkle Prescribing Information. Research Triangle Park, NC: Eisai, Inc; November 2020. Available at: https://www.accessdata.fda.gov/drugsatfda_docs/label/2020/204736s012lbl.pdf. Accessed August 16, 2023.
- 12. Dexilant Prescribing Information. Deerfield, IL: Takeda Pharmaceuticals; July 2023. Available at: https://www.accessdata.fda.gov/drugsatfda_docs/label/2023/022287s038lbl.pdf. Accessed August 16, 2023.



- 13. Esomeprazole strontium Prescribing Information. Carmel, IN: ParaPRO LLC; November 2022. Available at: https://www.accessdata.fda.gov/drugsatfda_docs/label/2022/202342s007lbl.pdf. Accessed August 22, 2023.
- 14. Konvomep Prescribing Information. Woburn, MA: Azurity Pharmaceuticals, Inc.; March 2023. Available at: https://konvomep.com/wp-content/uploads/Konvomep-Full-Prescribing-Information.pdf. Accessed August 22, 2023.
- 15. Nexium Prescribing Information. Wilmington, DE: AstraZeneca; March 2022. Available at: https://www.accessdata.fda.gov/drugsatfda_docs/label/2022/021153s059,021957s026,02210 1s023lbl.pdf. Accessed June 30, 2023.
- 16. Prevacid and Prevacid SoluTab Prescribing Information. Lexington, MA: Takeda Pharmaceuticals; August 2023. Available at: https://www.accessdata.fda.gov/drugsatfda_docs/label/2023/020406s095,021428s042lbl.pdf. Accessed August 22, 2023.
- 17. Prilosec Packets Prescribing Information. Switzerland: Covis Pharma; July 2023. Available at: https://www.accessdata.fda.gov/drugsatfda_docs/label/2023/022056s026lbl.pdf. Accessed August 22, 2023.
- 18. Zegerid Prescribing Information. Bridgewater, NJ: Salix Pharmaceuticals; July 2023. Available at: https://www.accessdata.fda.gov/drugsatfda_docs/label/2023/021849s020,021636s025lbl.pdf. Accessed August 22, 2023.

Reviews, Revisions, and Approvals	Date	P&T Approval
		Date
4Q 2019 annual review: no significant changes; references reviewed and updated.	08.13.19	11.19
4Q20 annual review: no significant changes; references reviewed and updated.	08.14.20	11.20
4Q 2021 annual review: revised redirection from Protonix packet to omeprazole and lansoprazole capsules for Prevacid SoluTabs, Prilosec packets, or omeprazole/sodium bicarbonate; references reviewed and updated.	08.09.21	11.21
Revised approval duration for Commercial line of business from length of benefit to 12 months or duration of request, whichever is less	01.20.22	05.22
4Q 2022 annual review: no significant changes; added coverage criteria for Zegerid oral suspension for gastrointestinal bleed reduction risk in critically ill patients that mirrors the FDA-approved indication language and which was already an existing covered indication within this policy; for Dexilant added generic redirection; references reviewed and updated. Template changes applied to other diagnoses/indications and continued therapy section. RT4: added Konvomep as a newly approved alternative dose form of an existing agent (Zegerid).	08.27.22	11.22



Reviews, Revisions, and Approvals	Date	P&T Approval Date
4Q 2023 annual review: no significant changes; references reviewed and updated.	08.22.23	11.23

Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. "Health Plan" means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan's affiliates, as applicable.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members. This clinical policy is not intended to recommend treatment for members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.

Providers referred to in this clinical policy are independent contractors who exercise independent judgment and over whom the Health Plan has no control or right of control. Providers are not agents or employees of the Health Plan.



This clinical policy is the property of the Health Plan. Unauthorized copying, use, and distribution of this clinical policy or any information contained herein are strictly prohibited. Providers, members and their representatives are bound to the terms and conditions expressed herein through the terms of their contracts. Where no such contract exists, providers, members and their representatives agree to be bound by such terms and conditions by providing services to members and/or submitting claims for payment for such services.

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