BlueCross BlueShield Minnesota

Proton Pump Inhibitors (PPIs) Step Therapy and Quantity Limit Program Summary

For the **GenRx Closed** formulary, step therapy will target Nexium suspension packets. Any generic PPI except omeprazole/sodium bicarbonate can serve as a prerequisite. For groups with the OTC benefit, omeprazole OTC and Prilosec OTC will also qualify as prerequisites.

For the **GenRx Open, Health Insurance Marketplace & KeyRx** formularies, step therapy will target ALL brand PPIs and generic omeprazole/sodium bicarbonate. Any generic PPI except omeprazole/sodium bicarbonate can serve as a prerequisite. For groups with the OTC benefit, omeprazole OTC and Prilosec OTC will also qualify as prerequisites.

For the **FlexRx Closed** formulary, step therapy will target Nexium suspension packets. Any generic PPI except omeprazole/sodium bicarbonate can serve as a prerequisite. For groups with the OTC benefit, omeprazole OTC and Prilosec OTC will also qualify as prerequisites.

For the **FlexRx Open** formulary, step therapy will target ALL brand PPIs and generic omeprazole/sodium bicarbonate. Any generic PPI except omeprazole/sodium bicarbonate can serve as a prerequisite. For groups with the OTC benefit, omeprazole OTC and Prilosec OTC will also qualify as prerequisites.

This program is a GenRx Standard and FlexRx Standard Step Therapy Program.

AGENTS	INDICATION	DOSAGE AND ADMINISTRATION
Aciphex (raberprazole)	Healing of erosive or ulcerative Gastroesophageal Reflux Disease (GERD)	20 mg once daily for four to eight weeks.
tabletª		For those who have not healed after eight weeks, an additional eight week course may be considered.
	Maintenance of healing of erosive or ulcerative Gastroesophageal Reflux Disease (GERD)	20 mg once daily.
	Treatment of symptomatic Gastroesophageal Reflux Disease (GERD)	For Adults: 20 mg once daily for four weeks.
		If symptoms do not resolve completely after 4 weeks, an additional course of treatment may be considered.
		For adolescents 12 years of age or older: 20 mg once daily for up to 8 weeks.

FDA APPROVED INDICATIONS AND DOSAGE^{1-7,10,17}

AGENTS	INDICATION	DOSAGE AND ADMINISTRATION
	Healing of duodenal ulcers	20 mg once daily for up to four weeks.
		A few patients may require additional therapy to achieve healing.
	Helicobacter pylori eradication to reduce the risk of duodenal ulcer recurrence	20 mg twice daily for seven days.
	Treatment of pathological hypersecretory conditions, including Zollinger-Ellison Syndrome	60 mg once daily. Doses up to 100 mg QD and 60 mg BID have been administered.
		Some patients may require divided doses.
Aciphex Sprinkle (rabeprazole)	Treatment of Gastroesophageal Reflux Disease (GERD) in pediatric patients 1 to 11 years of	<15 kg: 5-10 mg once daily for up to 12 weeks
delayed release capsule	age	≥15 kg: 10 mg once daily for up to 12 weeks
Dexilant (dexlansoprazole)	Healing of all grades of erosive esophagitis in patients 12 years of age and older	60 mg once daily for up to 8 weeks
capsule	Maintenance of healed EE and relief of heartburn in patients 12 years of age and older	30 mg once daily Controlled studies did not extend beyond 6 months in adults and 16 weeks in patients 12 to 17 years of age
	Treatment of symptomatic non- erosive gastroesophageal reflux disease (GERD) in patients 12 years of age and older	30 mg once daily for 4 weeks
Dexilant Solutab (dexlansoprazole)	Maintenance of healed EE and relief of heartburn in patients 12 years of age and older	30 mg once daily Controlled studies did not
oral disintegrating tablet	years of age and older	extend beyond 6 months in adults and 16 weeks in patients 12 to 17 years of age
	Treatment of symptomatic non- erosive gastroesophageal reflux disease (GERD) in patients 12 years of age and older	30 mg once daily for 3 weeks
Esomeprazole Strontium	Treatment of gastroesophageal reflux disease (GERD)	24.65 or 49.3 mg once daily for 4-8 weeks
delayed release capsule	Risk reduction of NSAID- associated gastric ulcer	24.65 or 49.3 mg once daily for up to 6 months
	H. pylori eradication to reduce the risk of duodenal ulcer recurrence	49.3 mg once daily for 10 days

AGENTS	INDICATION	DOSAGE AND ADMINISTRATION
	Pathological hypersecretory conditions, including Zollinger- Ellison syndrome	49.3 mg twice daily
Nexium (esomeprazole)	Treatment of gastroesophageal reflux disease (GERD)	2.5-40 mg once daily for up to 8 weeks
delayed release capsule ^a , delayed release suspension packet	Risk reduction of NSAID- associated gastric ulcer	20-40 mg once daily for up to 6 months
	H. pylori eradication to reduce the risk of duodenal ulcer recurrence	30 mg once daily for up to 10 days
	Pathological hypersecretory conditions, including Zollinger- Ellison syndrome	40 mg twice daily
Prevacid (lansoprazole) enteric coated capsule, delayed release suspension packet, delayed release capsule ^a ,	Short-term treatment of active duodenal ulcer	15 mg once daily for 4 weeks
	H. pylori eradication to reduce the risk of duodenal ulcer recurrence	30 mg twice daily for 10 -14 days
		30 mg three times daily for 14 days
oral disintegrating tablet ^a	Maintenance of healed duodenal ulcers	15 mg once daily
	short-term treatment of active benign gastric ulcer	30 mg once daily for 8 weeks
	Healing of nonsteroidal anti- inflammatory drugs (NSAID)- associated gastric ulcer	30 mg once daily for 8 weeks
	Risk reduction of NSAID- associated gastric ulcer	15 mg once daily for 12 weeks
	Gastroesophageal Reflux Disease (GERD)	15-30 mg once daily for 8-12 weeks
	Maintenance of healing of Erosive Esophagitis (EE)	15 mg once daily
	Pathological hypersecretory conditions including Zollinger- Ellison Syndrome (ZES)	60 mg once daily
Prilosec (omeprazole)	Treatment of active duodenal ulcer in adults	20 mg once daily for 4 weeks
capsule ^a , delayed release capsule ^a , powder pack for suspension		Some patients may require an additional 4 weeks
	Eradication of Helicobacter pylori to reduce the risk of duodenal ulcer recurrence in adults	20 mg twice daily for 10 days as part of triple therapy; if ulcer present, continue with 20 mg once daily for an additional 18 days
		40 mg once daily for 14 days as part of dual therapy; if ulcer present continue with 20 mg once daily for an additional 14 days
	Treatment of active benign gastric ulcer in adults	40 mg once daily for 4-8 weeks

AGENTS	INDICATION	DOSAGE AND ADMINISTRATION
	Treatment of symptomatic gastroesophageal reflux disease (GERD) in patients 1 year of age and older	5-20 mg once daily for up to 4 weeks
	Treatment of erosive esophagitis (EE) due to acid-mediated GERD in patients 1 month of age and older	 1 month to <1 year of age: 2.5-10 mg once daily for up to 6 weeks
		 ≥1 year of age: 5-20 mg once daily for 4-8 weeks
	Maintenance of healing of EE due to acid-mediated GERD in patients 1 year of age and older	5-20 mg once daily
	Pathologic hypersecretory conditions in adults	60 mg once daily to 120 mg three times daily
Protonix (pantoprazole) enteric coated tablet ^a ,	Short-term treatment of erosive esophagitis associated with Gastroesophageal Reflux Disease (GERD)	20-40 mg once daily for up to 8 weeks
delayed release suspension packet	Maintenance of healing of erosive esophagitis	40 mg once daily
	pathological hypersecretory conditions including Zollinger- Ellison Syndrome	40 mg twice daily
Zegerid (omeprazole/sodium	Short-term treatment of active duodenal ulcer	20 mg once daily for 4 weeks
bicarbonate)		Some patients may require an additional 4 weeks of therapy
capsule ^a , powder pack for	Short-term treatment of active benign gastric ulcer	40 mg once daily for 4-8 weeks
suspension ^a	Treatment of gastroesophageal reflux disease (GERD)	20 once daily for 4-8 weeks
	Maintenance of healing of erosive esophagitis	20 mg once daily
	Reduction of risk of upper GI bleeding in critically ill patients	40 mg oral suspension initially followed by 40 mg 6-8 hours later and 40 mg daily thereafter for 14 days

a – generic available

CLINICAL RATIONALE

Current guidelines recognize the proton pump inhibitors (PPIs) as first-line therapy for the management of dyspepsia, gastroesophageal reflux disease (GERD), peptic ulcer disease (PUD), eradication of Helicobacter pylori (H. pylori), and Zollinger Ellison syndrome (ZES).^{8,9,11-16}

In studies comparing PPIs to one another, while some differences have been reported, the magnitude of differences (safety/efficacy) has been small and of uncertain clinical importance. The degree to which any differences would justify the selection of one vs. another PPI, particularly when considering cost-effectiveness, is unclear. Data suggests the similar efficacy of PPIs that has been observed in controlled clinical trials may not necessarily translate into equivalent

effectiveness when these drugs are substituted for one another.¹⁶ Differences in dosage formulations and drug interactions may occasionally influence choice of PPI in individual cases.^{8,11-13}

Safety

Aciphex is contraindicated in patients with known hypersensitivity to rabeprazole, substituted benzimidazoles or to any component of the formulation.

Dexilant is contraindicated in the following:

- Patients with known hypersensitivity to any component of the formulation.
- Patients receiving rilpivirine-containing products.

Esomeprazole Strontium is contraindicated in patients with known hypersensitivity to proton pump inhibitors (PPIs) (angioedema and anaphylaxis have occurred).

Nexium is contraindicated in patients with known hypersensitivity to proton pump inhibitors (PPIs) (angioedema and anaphylaxis have occurred).

Prevacid is contraindicated in patients with known severe hypersensitivity to any component of the formulation.

Prilosec is contraindicated in the following:

- Patients with known hypersensitivity to substituted benzimidazoles or any component of the formulation.
- Patients receiving rilpivirine-containing products.

Protonix is contraindicated in those with known hypersensitivity to any component of the formulation or to substituted benzimidazoles.

Zegerid is contraindicated in those with known hypersensitivity to any components of the formulation.

Prevacid is contraindicated in patients with known severe hypersensitivity to any component of the Prevacid formulation.

For additional clinical information see Prime Therapeutics Formulary Chapter 7.4C Proton Pump Inhibitors.

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Proton Pump Inhibitors (PPIs) Step Therapy

OBJECTIVE

The intent of the Proton Pump Inhibitors (PPIs) Step Therapy (ST) program is to encourage the use of the cost-effective preferred generic PPIs prior to the use of brand PPIs and nonpreferred generic PPIs, and to accommodate for use of nonpreferred brand or generic PPIs when preferred generic PPIs cannot be used due to previous trial, documented intolerance, FDA labeled contraindication, or hypersensitivity. Requests for nonpreferred PPIs will be reviewed when patient-specific documentation has been provided. Only oral dosage forms of the PPIs are included in this program.

TARGET AGENTS

(all brands and nonpreferred generics, determined by client and benefit structure) Aciphex® (rabeprazole)^a Dexilant™ (dexlansoprazole) Esomeprazole Strontium® (brand agent) Nexium® (esomeprazole)^a Prevacid® (lansoprazole)^a Prilosec® (omeprazole)^a Protonix® (pantoprazole)^a Zegerid® (omeprazole/sodium bicarbonate)^a a - available as a generic; designated target or prerequisite as determined by client

PRIOR AUTHORIZATION CRITERIA FOR APPROVAL

Brand and Nonpreferred PPIs will be approved when ANY ONE of the following is met:

- The patient's medication history includes use of a *preferred* prescription strength generic PPI in the past 90 days
 OR
- 2. The patient has a documented intolerance, FDA labeled contraindication, or hypersensitivity, to one of the *preferred* generic PPI prerequisites

Length of approval: 12 months

NOTE: If Quantity Limit program also applies, please refer to Quantity Limit documents.