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| Clinical Policy Title: | Proton Pump Inhibitors |
| Policy Number: | RxA.3 |
| Drug(s) Applied: | rabeprazole (AcipHex®, AcipHex® Sprinkle), dexlansoprazole (Dexilant®), esomeprazole strontium (ES), esomeprazole (Nexium®, Nexium® 24HR, Nexium® 24HR ClearMinis™), omeprazole (Prilosec® Packets),,, omeprazole/sodium bicarbonate (Zegerid®, Zegerid® OTC). |
| Original Policy Date: | 02/07/2020 |
| Last Review Date: | 03/09/2021 |
| Line of Business Policy Applies to: | All lines of business |

| Background | | | | | | | |
|--|----------|-----------|---------|-----------|----------|-------------------|----|
| Indication | AcipHex® | Dexilant® | Nexium® | Prilosec® | Zegerid® | AcipHex® sprinkle | ES |
| Duodenal ulcers | X | | * | X | X | | |
| Duodenal ulcers, Maintenance | | | | * | | | |
| Duodenal ulcers, giant | | | | * | | | |
| Erosive esophagitis | X | X | X | X | X | | X |
| Erosive esophagitis, Maintenance | X | X | X | X | X | | X |
| Gastric ulcers | * | | | X | X | | |
| Nonsteroidal anti-inflammatory drug (NSAID)-associated gastric ulcer, risk reduction | * | | X | * | | | X |
| NSAID-associated gastric ulcer, healing of | | | * | * | | | |
| <i>Helicobacter pylori</i> (<i>H. pylori</i>) Triple Therapy | X | | X | X | | | X |
| <i>H. pylori</i> Dual Therapy | | | | X | | | |
| <i>H. pylori</i> Quadruple therapy | * | | * | * | | | |

This clinical policy has been developed to authorize, modify, or determine coverage for individuals with similar conditions. Specific care and treatment may vary depending on individual need and benefits covered by the plan. This policy is not intended to dictate to providers how to practice medicine, nor does it constitute a contract or guarantee regarding payment or results. This document may contain prescription brand name drugs that are trademarks of pharmaceutical manufacturers that are not affiliated with RxAdvance.

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|--|---|---|----------------|---|---|----------------|---|
| Pathological hypersecretory conditions, including Zollinger-Ellison Syndrome | X | | X | X | | | X |
| Symptomatic gastroesophageal reflux disease (GERD) (erosive/ulcerative) | X | | X [^] | X | X | X ^P | X |
| Symptomatic GERD, maintenance (erosive/ulcerative) | X | | | | | | |
| Symptomatic GERD (non-erosive) | | X | X | | | | X |
| Indigestion | * | | * | * | | | |
| Drug-induced Gastrointestinal (GI) disturbance | | | | * | | | |
| Esophageal stricture | | | | * | | | |
| Heartburn | | | X | | | | |
| 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.

[^]Includes adults and pediatrics

^PPediatrics only

Dosing Information

| Drug Name | Indication | Dosing Regimen | Maximum Dose |
|-----------|------------|----------------|--------------|
|-----------|------------|----------------|--------------|

| | | | |
|--|--|---|------------|
| rabeprazole (Aciphex®) | Duodenal ulcers; Erosive esophagitis; H. pylori triple therapy; Symptomatic GERD (erosive/ulcerative), healing and maintenance; | 20 mg PO once daily (treatment duration varies) | 20 mg/day |
| | Pathological hypersecretory conditions, including Zollinger-Ellison Syndrome | 60 mg PO once daily to 60 mg PO BID | 120 mg/day |
| rabeprazole sodium delayed-release (Aciphex® sprinkle) | Symptomatic GERD (erosive/ulcerative) | Pediatric <u>Age 1 to 11 years:</u> Weight <15 kg: 5 to 10 mg PO once daily Weight ≥15 kg: 10 mg PO once daily | 10 mg/day |
| dexlansoprazole (Dexilant®) | Healing of erosive esophagitis | 60 mg PO once daily | 60 mg/day |
| | Maintenance of healed erosive esophagitis and relief of heartburn; Symptomatic non- erosive GERD | 30 mg PO once daily | 30 mg/day |
| esomeprazole (Nexium®, Nexium® 24HR, Nexium® 24HR clear minis) | GERD (including erosive esophagitis, symptomatic GERD) | Adult 20 to 40 mg PO once daily to BID Pediatric <u>Age 1 to 11 years:</u> 10 to 20 mg PO once daily; <u>Age 12 to 17 years:</u> 20 to 40 mg PO once daily; <u>Age 1 month to < 1 year:</u> Weight 3 kg to 5 kg: 2.5 mg PO once daily Weight > 5 kg to 7.5 kg: 5 mg PO once daily | 80 mg/day |

| | | | |
|----------------------------------|---|--|------------|
| | Risk reduction of NSAID-associated gastric ulcer | 20 mg to 40 mg PO once daily | 40 mg/day |
| | H. pylori triple therapy | 40 mg PO once daily for 10 days, in combination with amoxicillin and clarithromycin | 40 mg/day |
| | Pathological hypersecretory conditions, including Zollinger-Ellison Syndrome | 40 mg PO BID | 240 mg/day |
| lansoprazole (Prevacid® solutab) | Duodenal ulcers | 15 mg PO once daily | 90 mg/day |
| | <i>H. pylori</i> | Triple therapy: 30 mg PO BID for 10 to 14 days, in combination with amoxicillin and clarithromycin Dual therapy: 30 mg PO TID for 14 days, in combination with amoxicillin | 90 mg/day |
| | Gastric ulcer (including benign and healing of NSAID-associated gastric ulcers); Treatment of erosive esophagitis | Adult 30 mg PO once daily (treatment duration varies) Pediatric <u>Age 1-11 years</u> Weight ≤ 30 kg: 15 mg PO once daily Weight > 30 kg : 30 mg PO once daily <u>Age 12-17 years</u> 15 to 30 mg PO once daily | 30 mg/day |

| | | | |
|---|--|---|--------------|
| | Risk reduction of NSAID-associated gastric ulcers; Symptomatic GERD; Maintenance of healing of erosive esophagitis | 15 mg PO once daily (treatment duration varies) | 15 mg/day |
| | Pathological hypersecretory conditions, including Zollinger-Ellison Syndrome | 60 mg PO once daily to 90 mg/day PO BID | 180 mg/day |
| omeprazole/ sodium bicarbonate (Zegerid®, Zegerid® OTC) | Duodenal ulcer; Symptomatic GERD; Erosive esophagitis (treatment and maintenance) | 20 mg PO once daily (treatment duration varies) | 40 mg/day |
| | Benign gastric ulcer | 40 mg PO once daily | 40 mg/day |
| | Reduction of risk of upper GI bleeding in critically ill patients | <u>40 mg oral suspension only:</u> 40 mg PO initially, 6 to 8 hours later, then daily for 14 days | 40 mg/day |
| esomeprazole strontium | Treatment of erosive esophagitis; Risk reduction of NSAID-associated gastric ulcers | 24.65 to 49.3 mg PO once daily (treatment duration varies) | 49.3 mg/day |
| | Symptomatic GERD; Maintenance of healing of erosive esophagitis | 24.65 mg PO once daily | 24.65 mg/day |
| | <i>H. pylori</i> triple therapy | 49.3 mg PO once daily for 10 days | 49.3 mg/day |
| | Pathological hypersecretory conditions, including Zollinger-Ellison Syndrome | 49.3 mg PO BID | 240 mg/day |

Dosage Forms

| 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®) | <ul style="list-style-type: none"> • 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® solutabs™) | Tablets, delayed release orally disintegrating: 15 mg, 30 mg |
| omeprazole (Prilosec® packets) | Packets, powder for delayed-release oral suspension: 2.5 mg, 10 mg |
| omeprazole/sodium bicarbonate (Zegerid®) | <ul style="list-style-type: none"> • Capsules: 20 mg/1100 mg, 40 mg/1100 mg • Unit-dose packets for oral suspension: 20 mg/1680 mg, 40 mg/1680 mg |
| esomeprazole strontium | Capsules, delayed release: 49.3 mg (equivalent to 40 mg esomeprazole) |
| Available OTC products | |
| omeprazole/sodium bicarbonate (Zegerid® OTC) | Capsules: 20 mg/1100 mg |
| esomeprazole (Nexium® 24HR) | Tablets, delayed release: 20 mg |
| esomeprazole (Nexium® 24HR clearminis™) | Capsules, delayed release: 20 mg |

Clinical Policy

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

I. Initial Approval Criteria

A. All Indications (must meet all):

1. Prescribed for one of the following uses (a – e):
 - 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 60 years or older;
 - iii. Concurrent therapy with anticoagulants (e.g., warfarin, aspirin, clopidogrel) or oral corticosteroids (e.g., prednisone);
2. For lansoprazole disintegrating tablets or AcipHex Sprinkle: age 1 year or older;
 3. Member meets any of the following (a, b, c, or d):
 - a. Age less than 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 Prilosec® packets, or omeprazole/sodium bicarbonate: failure of a ≥ 4-week trial of Protonix® packets 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®: Failure of a ≥ 4-week trial of pantoprazole tablets at up to maximally indicated doses, unless contraindicated or clinically significant adverse effects are experienced;
 - d. Request is for Dexilant®, esomeprazole, lansoprazole disintegrating tablets, omeprazole suspension, omeprazole/sodium bicarbonate, rabeprazole: failure of a ≥ 4-week trial of all of the following preferred generic PPIs at up to maximally indicated doses, unless contraindicated or clinically significant adverse effects are experienced: omeprazole capsules, pantoprazole tablets, and lansoprazole capsules;
 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 Dosing Information).

Approval Duration

Commercial: 12 months

Medicaid: 12 months

II. Continued Therapy Approval

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

1. Currently receiving medication that has been authorized by RxAdvance or member has previously met initial approval criteria listed in this policy;
2. Member is responding positively to therapy;
3. If request is for a dose increase, new dose does not exceed the FDA-approved maximum recommended dose (refer to Dosing Information).

Approval Duration

Commercial: 12 months

Medicaid: 12 months

III. Appendices

APPENDIX A: Abbreviation/Acronym Key

ES: esomeprazole strontium

EE: erosive esophagitis

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

TIN: tubulointerstitial nephritis

APPENDIX B: Therapeutic Alternatives

Below are suggested therapeutic alternatives based on clinical guidance. Please check drug formulary for preferred agents and utilization management requirements.

| Drug Name | Dosing Regimen | Dose Limit/ Maximum Dose |
|---|--|--|
| <p>pantoprazole tablets and suspension (Protonix)</p> | <p>Short-term treatment of erosive esophagitis associated with GERD <u>Adult and pediatric (age ≥ 5 years and weight ≥ 40 kg):</u> 40 mg PO once daily <u>Pediatric (age ≥ 5 years and weight ≥ 15 kg to < 40 kg):</u> 20 mg PO once daily</p> <p>Maintenance of healing of erosive esophagitis 40 mg PO once daily</p> <p>Pathological hypersecretory conditions, including Zollinger-Ellison Syndrome 40 mg PO BID</p> | <p>40 mg/day (240 mg/day for pathological hypersecretory conditions)</p> |
| <p>omeprazole capsules (Prilosec®)</p> | <p>Duodenal ulcer 20 mg PO once daily</p> <p>Symptomatic GERD; Erosive esophagitis (treatment and maintenance) <u>Adult:</u> 20 mg PO once daily <u>Pediatric (age 1 to 16 years):</u> Weight 5 kg to < 10 kg: 5 mg Weight 10 kg to < 20 kg: 10 mg Weight ≥ 20 kg: 20 mg <u>Pediatric (age 1 month to < 1 year):</u> Weight 5 kg to < 10 kg: 5 mg Weight ≥ 10 kg: 10 mg</p> | <p>40 mg/day (360 mg/day for pathological hypersecretory conditions)</p> |

| Drug Name | Dosing Regimen | Dose Limit/ Maximum Dose |
|--|--|--|
| | <p><i>H. pylori</i> Triple therapy: 20 mg PO BID for 10 days, in combination with amoxicillin and clarithromycin Dual therapy: 40 mg PO once daily for 14 days, in combination with clarithromycin 40 mg/day</p> <p>Gastric ulcer 40 mg PO once daily</p> <p>Pathological hypersecretory conditions, including Zollinger-Ellison Syndrome 60 mg PO once daily to 80 mg/day PO in divided doses</p> | |
| <p>lansoprazole capsules (Prevacid®)</p> | <p>Duodenal ulcers, risk reduction of NSAID-associated gastric ulcer, maintenance of healing of erosive esophagitis 15 mg PO once daily</p> <p>Short-term treatment of symptomatic GERD and erosive esophagitis <u>Adult</u>: 15 to 30 mg PO once daily <u>Pediatric (age 1 to 11 years)</u>: Weight > 30 kg: 30 mg PO once daily Weight ≤ 30 kg: 15 mg PO once daily <u>Pediatric (age 12 to 17 years)</u>: Non-erosive GERD: 15 mg Erosive esophagitis: 30 mg</p> <p><i>H. pylori</i> 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</p> <p>Benign gastric ulcer, healing of NSAID-associated gastric ulcer 30 mg PO once daily</p> | <p>30 mg/day (180 mg/day for pathological hypersecretory conditions)</p> |

| Drug Name | Dosing Regimen | Dose Limit/ Maximum Dose |
|-----------|--|-----------------------------|
| | <p>Pathological hypersecretory conditions, including Zollinger-Ellison Syndrome 60 mg PO once daily</p> | |

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):
 - All agents: hypersensitivity (e.g., to drug or other PPIs, substituted benzimidazoles, or to any components of the formulation).
 - AcipHex/Aciphex Sprinkle and Dexilant®: coadministration with rilpivirine- containing products.
 - Refer to the Contraindications section of the prescribing information for clarithromycin and amoxicillin, when administered in combination with Aciphex® (only for Aciphex®).

- 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.
- Patients with a platelet reactivity index (PRI) >50% is linked to sub-acute stent thrombosis.
- In a study by Siller-Matula JM, et al., The PRI was similar in patients on Protonix or Nexium® (mean 51%; 95% CI 48-54%) and for patients on Plavix and Protonix the mean was PRI = 50% and for Plavix and Nexium® the mean PRI was 54%.
- Over 90% of gastric and duodenal ulcers heal within 8 weeks of PPI therapy.
- There have been models constructed to evaluate both the efficacy and cost-effectiveness of “step-up” therapy (starting with H2 antagonists and titrating to symptom control) and “step-down therapy” (starting with PPI therapy and decreasing therapy to the lowest form of acid suppression that controls symptoms). Neither method has been proven superior.
- 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 once daily 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 Dexilant®, Zegerid® and Protonix in children have not been established. 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 giant duodenal ulcer per Micromedex. Of 27 study patients with giant duodenal ulcer placed on Prilosec®, 20 (71.4%) did not require operative intervention, and 8 (28.6%) required operation for ulcer complications.
- Prevacid® has a non FDA-approved, Class IIa strength recommendation for heartburn and H. pylori uadruple therapy per Micromedex.
- Aciphex® has a non FDA-approved, Class II a strength recommendation for gastric ulcers, H. pylori quadruple therapy and indigestion per Micromedex.
- Several published observational studies suggest that high-dose, defined as multiple daily doses, and long-term PPI therapy (a year or longer) may be associated with an increased risk for osteoporosis related fractures. Patients should use the lowest dose and shortest duration of PPI therapy appropriate to the condition being treated. Patients at risk for osteoporosis-related fractures should be managed according to established treatment guidelines.
- 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.”
- Acute tubulointerstitial nephritis (TIN) has been observed in patients taking PPIs and may occur at any point during PPI therapy. Patients may present with varying signs and symptoms from symptomatic hypersensitivity reactions to non-specific symptoms of decreased renal function (e.g., malaise, nausea, anorexia). In reported case series, some patients were diagnosed on biopsy and in the absence of extra-renal manifestations (e.g., fever, rash or arthralgia). Discontinue Drug and evaluate patients with suspected acute TIN.

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| Review/Revision History | Review/Revision Date | P&T Approval Date |
|--|----------------------|-------------------|
| Policy established. | 01/2020 | 02/07/2020 |
| 2Q2020 P&T Review; No updates, references reviewed and updated | 4/2020 | 05/20/2020 |
| <p>Policy was reviewed:</p> <ol style="list-style-type: none"> 1. Line of business policy applies was updated to All lines of business. 2. Prevacid was removed from this policy. 3. Dosage Forms was updated as esomeprazole strontium 24.65 mg was discontinued . 4. Continued therapy approval criteria II.A.1 was rephrased to “Currently receiving medication that has been authorized by RxAdvance...”. 5. Approval durations were updated to 12 months from Length of Benefit. 6. Appendix A was updated. 7. Appendix B: Therapeutic Alternatives header verbiage has been changed to <i>“Below are suggested therapeutic alternatives based on...”</i> 8. Appendix D was updated. 9. References were updated. | 01/28/2021 | 03/09/2021 |