

RABEPRAZOLE SODIUM- rabeprazole sodium tablet, delayed release

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HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use rabeprazole sodium delayed-release tablets safely and effectively. See full prescribing information for rabeprazole sodium delayed-release tablets.

RABEPRAZOLE sodium delayed-release tablets, for oral use

Initial U.S. Approval: 1999

RECENT MAJOR CHANGES

Warnings and Precautions, <i>Clostridium difficile</i> associated diarrhea (5.3)	10/2012
Warnings and Precautions, Concomitant use of Rabeprazole Sodium Delayed-Release Tablets with Methotrexate (5.6)	05/2012

INDICATIONS AND USAGE

Rabeprazole Sodium Delayed-Release Tablets is a proton pump inhibitor (PPI) indicated in adults for:

- Healing of Erosive or Ulcerative Gastroesophageal Reflux Disease (GERD)(1.1)
- Maintenance of Healing of Erosive or Ulcerative GERD (1.2)
- Treatment of Symptomatic GERD (1.3)
- Healing of Duodenal Ulcers (1.4)
- *Helicobacter pylori* Eradication to Reduce the Risk of Duodenal Ulcer Recurrence (1.5)
- Treatment of Pathological Hypersecretory Conditions, Including Zollinger-Ellison Syndrome (1.6)

In adolescent patients 12 years of age and older for:

- Short-term treatment of Symptomatic GERD (1.7)

DOSAGE AND ADMINISTRATION

Rabeprazole Sodium Delayed-Release Tablets should be swallowed whole. The tablets should not be chewed, crushed, or split (2.10).

Healing of Erosive or Ulcerative Gastroesophageal Reflux Disease (GERD) (2.1)	20 mg once daily
Maintenance of Healing of Erosive or Ulcerative GERD (2.2)	20 mg once daily
Treatment of Symptomatic GERD in Adults (2.3)	20 mg once daily
Healing of Duodenal Ulcers (2.4)	20 mg once daily after morning meal
<i>Helicobacter pylori</i> Eradication to Reduce the Risk of Duodenal Ulcer Recurrence (2.5)	
Three Drug Regimen: Rabeprazole Sodium Delayed-Release Tablets 20 mg Amoxicillin 1000 mg Clarithromycin 500 mg	<i>All three medications should be taken twice daily with morning and evening meals for 7 days</i>
Treatment of Pathological Hypersecretory Conditions, Including Zollinger-Ellison Syndrome (2.6)	Starting dose 60 mg once daily then adjust to patient needs
Treatment of Symptomatic GERD in Adolescents 12 Years of Age and Older (2.7)	20 mg once daily

DOSAGE FORMS AND STRENGTHS

Delayed-Release Tablets: 20 mg (3)

CONTRAINDICATIONS

- History of hypersensitivity to rabeprazole (4)

WARNINGS AND PRECAUTIONS

- Symptomatic response to therapy with rabeprazole does not preclude the presence of gastric malignancy (5.1)

- Use with warfarin: monitor for increases in INR and prothrombin time (5.2)
- PPI therapy may be associated with increased risk of *Clostridium difficile* associated diarrhea (5.3)
- Bone Fracture: Long-term and multiple daily dose PPI therapy may be associated with an increased risk for osteoporosis-related fractures of the hip, wrist, or spine (5.4)
- Hypomagnesemia has been reported rarely with prolonged treatment with PPIs (5.5)

ADVERSE REACTIONS

- In the adult studies (4 to 8 weeks), adverse reactions that occurred at a rate greater than 2% and greater than placebo included pain, pharyngitis, flatulence, infection and constipation (6.1).
- In studies of adolescent patients (ages 12 to 16 years, and up to 36 weeks exposure) adverse reactions that occurred at a rate of ≥5% of patients included abdominal pain, diarrhea and headache (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact UCB, Inc. at 1-866-822-0068 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch

DRUG INTERACTIONS

- Increased INR and prothrombin times have been reported with concomitant use with warfarin. Patients need to be monitored (7.2)
- Rabeprazole has been shown to inhibit cyclosporine metabolism *in vitro* (7.3)
- Rabeprazole Sodium Delayed-Release Tablets inhibits gastric acid secretion and may interfere with the absorption of drugs where gastric pH is an important determinant of bioavailability (e.g., ketoconazole, iron salts and digoxin) (7.4)
- Rabeprazole Sodium Delayed-Release Tablets may reduce the plasma levels of atazanavir (7.4)
- Methotrexate: Rabeprazole Sodium Delayed-Release Tablets may increase serum level of methotrexate (7.7)

USE IN SPECIFIC POPULATIONS

- The safety and efficacy of Rabeprazole Sodium Delayed-Release Tablets for GERD have not been established for pediatric patients less than 12 years of age (8.4).
- The safety and efficacy of Rabeprazole Sodium Delayed-Release Tablets for the other adult indications have not been established for pediatric patients (8.4).

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 1/2020

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Healing of Erosive or Ulcerative GERD in Adults

Rabeprazole Sodium Delayed-Release Tablets is indicated for short-term (4 to 8 weeks) treatment in the healing and symptomatic relief of erosive or ulcerative gastroesophageal reflux disease (GERD). For those patients who have not healed after 8 weeks of treatment, an additional 8-week course of Rabeprazole Sodium Delayed-Release Tablets may be considered.

1.2 Maintenance of Healing of Erosive or Ulcerative GERD in Adults

Rabeprazole Sodium Delayed-Release Tablets is indicated for maintaining healing and reduction in relapse rates of heartburn symptoms in patients with erosive or ulcerative gastroesophageal reflux disease (GERD Maintenance). Controlled studies do not extend beyond 12 months.

1.3 Treatment of Symptomatic GERD in Adults

Rabeprazole Sodium Delayed-Release Tablets is indicated for the treatment of daytime and nighttime heartburn and other symptoms associated with GERD in adults.

1.4 Healing of Duodenal Ulcers in Adults

Rabeprazole Sodium Delayed-Release Tablets is indicated for short-term (up to four weeks) treatment in the healing and symptomatic relief of duodenal ulcers. Most patients heal within four weeks.

1.5 *Helicobacter pylori* Eradication to Reduce the Risk of Duodenal Ulcer Recurrence in Adults

Rabeprazole Sodium Delayed-Release Tablets in combination with amoxicillin and clarithromycin as a three drug regimen, is indicated for the treatment of patients with *H. pylori* infection and duodenal ulcer disease (active or history within the past 5 years) to eradicate *H. pylori*. Eradication of *H. pylori* has been shown to reduce the risk of duodenal ulcer recurrence [see *Clinical Studies (14.5) and Dosage and Administration (2.5)*].

In patients who fail therapy, susceptibility testing should be done. If resistance to clarithromycin is demonstrated or susceptibility testing is not possible, alternative antimicrobial therapy should be instituted [see *Clinical Pharmacology (12.2)* and the clarithromycin package insert, *Clinical Pharmacology (12.2)*].

1.6 Treatment of Pathological Hypersecretory Conditions, Including Zollinger-Ellison Syndrome in Adults

Rabeprazole Sodium Delayed-Release Tablets is indicated for the long-term treatment of pathological hypersecretory conditions, including Zollinger-Ellison Syndrome.

1.7 Short-term Treatment of Symptomatic GERD in Adolescent Patients 12 Years of Age and Older

Rabeprazole Sodium Delayed-Release Tablets is indicated for the treatment of symptomatic GERD in adolescents 12 years of age and above for up to 8 weeks.

2 DOSAGE AND ADMINISTRATION

2.1 Healing of Erosive or Ulcerative GERD in Adults

The recommended adult oral dose is one Rabeprazole Sodium 20 mg Delayed-Release Tablet to be taken once daily for four to eight weeks [see *Indications and Usage (1.1)*]. For those patients who have not healed after 8 weeks of treatment, an additional 8-week course of Rabeprazole Sodium Delayed-Release Tablets may be considered.

2.2 Maintenance of Healing of Erosive or Ulcerative GERD in Adults

The recommended adult oral dose is one Rabeprazole Sodium 20 mg Delayed-Release Tablet to be taken once daily [see *Indications and Usage (1.2)*].

2.3 Treatment of Symptomatic GERD in Adults

The recommended adult oral dose is one Rabeprazole Sodium 20 mg Delayed-Release Tablet to be taken once daily for 4 weeks [see *Indications and Usage (1.3)*]. If symptoms do not resolve completely after 4 weeks, an additional course of treatment may be considered. The recommended adolescent dosing is one Rabeprazole Sodium 20 mg Delayed-Release Tablet to be taken once daily for 8 weeks.

2.4 Healing of Duodenal Ulcers in Adults

The recommended adult oral dose is one Rabeprazole Sodium 20 mg Delayed-Release Tablet to be taken once daily after the morning meal for a period up to four weeks [see *Indications and Usage (1.4)*]. Most patients with duodenal ulcer heal within four weeks. A few patients may require additional therapy to achieve healing.

2.5 *Helicobacter pylori* Eradication to Reduce the Risk of Duodenal Ulcer Recurrence in Adults

TABLE 1 THREE DRUG REGIMEN*

Rabeprazole Sodium Delayed-Release Tablet	20 mg	Twice Daily for 7 Days
Amoxicillin	1000 mg	Twice Daily for 7 Days
Clarithromycin	500 mg	Twice Daily for 7 Days

All three medications should be taken twice daily with the morning and evening meals.

* It is important that patients comply with the full 7-day regimen [see *Clinical Studies (14.5)*].

2.6 Treatment of Pathological Hypersecretory Conditions, Including Zollinger-Ellison Syndrome in Adults

The dosage of Rabeprazole Sodium Delayed-Release Tablets in patients with pathologic hypersecretory conditions varies with the individual patient. The recommended adult oral starting dose is 60 mg once a day. Doses should be adjusted to individual patient needs and should continue for as long as clinically indicated. Some patients may require divided doses. Doses up to 100 mg QD and 60 mg BID have been administered. Some patients with Zollinger-Ellison syndrome have been treated continuously with Rabeprazole Sodium Delayed-Release Tablets for up to one year.

2.7 Short-term Treatment of Symptomatic GERD in Adolescent Patients 12 Years of Age and Older

The recommended oral dose for adolescents 12 years of age and older is one 20 mg Delayed-Release Tablet once daily for up to 8 weeks [see *Use in Specific Populations (8.4)* and *Clinical Studies (14.7)*].

2.9 Elderly, Renal and Hepatic Impaired Patients

No dosage adjustment is necessary in elderly patients, in patients with renal disease or in patients with mild to moderate hepatic impairment. Administration of rabeprazole to patients with mild to moderate liver impairment resulted in increased exposure and decreased elimination. Due to the lack of clinical data on rabeprazole in patients with severe hepatic impairment, caution should be exercised in those

patients.

2.10 Administration Recommendations

TABLE 2 Administration Recommendations

Formulation	Population	Instructions
Delayed-Release Tablet	Adults and adolescents 12 years of age and older	Swallow tablets whole. Do not chew, crush or split tablets. Tablets can be taken with or without food.

3 DOSAGE FORMS AND STRENGTHS

Rabeprazole Sodium Delayed-Release Tablets are provided in strength of 20 mg.

4 CONTRAINDICATIONS

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

For information about contraindications of antibacterial agents (clarithromycin and amoxicillin) indicated in combination with Rabeprazole Sodium Delayed-Release Tablets, refer to the *Contraindications* section of their package inserts.

5 WARNINGS AND PRECAUTIONS

5.1 Presence of Gastric Malignancy

Symptomatic response to therapy with rabeprazole does not preclude the presence of gastric malignancy.

Patients with healed GERD were treated for up to 40 months with rabeprazole and monitored with serial gastric biopsies. Patients without *H. pylori* infection (221 of 326 patients) had no clinically important pathologic changes in the gastric mucosa. Patients with *H. pylori* infection at baseline (105 of 326 patients) had mild or moderate inflammation in the gastric body or mild inflammation in the gastric antrum. Patients with mild grades of infection or inflammation in the gastric body tended to change to moderate, whereas those graded moderate at baseline tended to remain stable. Patients with mild grades of infection or inflammation in the gastric antrum tended to remain stable. At baseline 8% of patients had atrophy of glands in the gastric body and 15% had atrophy in the gastric antrum. At endpoint, 15% of patients had atrophy of glands in the gastric body and 11% had atrophy in the gastric antrum. Approximately 4% of patients had intestinal metaplasia at some point during follow-up, but no consistent changes were seen.

5.2 Concomitant Use with Warfarin

Steady state interactions of rabeprazole and warfarin have not been adequately evaluated in patients. There have been reports of increased INR and prothrombin time in patients receiving a proton pump inhibitor and warfarin concomitantly. Increases in INR and prothrombin time may lead to abnormal bleeding and even death. Patients treated with a proton pump inhibitor and warfarin concomitantly may need to be monitored for increases in INR and prothrombin time.

5.3 *Clostridium difficile* Associated Diarrhea

Published observational studies suggest that PPI therapy like Rabeprazole Sodium Delayed-Release Tablets may be associated with an increased risk of *Clostridium difficile* associated diarrhea, especially

in hospitalized patients. This diagnosis should be considered for diarrhea that does not improve [see *Adverse Reactions (6.2)*].

Patients should use the lowest dose and shortest duration of PPI therapy appropriate to the condition being treated.

Clostridium difficile associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents. For more information specific to antibacterial agents (clarithromycin and amoxicillin) indicated for use in combination with Rabeprazole Sodium Delayed-Release Tablets, refer to *Warnings* and *Precautions* sections of those package inserts.

5.4 Bone Fracture

Several published observational studies in adults suggest that PPI therapy may be associated with an increased risk for osteoporosis-related fractures of the hip, wrist, or spine. The risk of fracture was increased in patients who received high-dose, defined as multiple daily doses, and long-term PPI therapy (a year or longer). 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 [see *Dosage and Administration (2)* and *Adverse Reactions (6.2)*].

5.5 Hypomagnesemia

Hypomagnesemia, symptomatic and asymptomatic, has been reported rarely in patients treated with PPIs for at least three months, in most cases after a year of therapy. Serious adverse events include tetany, arrhythmias, and seizures. In most patients, treatment of hypomagnesemia required magnesium replacement and discontinuation of the PPI.

For patients expected to be on prolonged treatment or who take PPIs with medications such as digoxin or drugs that may cause hypomagnesemia (e.g., diuretics), healthcare professionals may consider monitoring magnesium levels prior to initiation of PPI treatment and periodically [see *Adverse Reactions (6.2)*].

5.6 Concomitant Use of Rabeprazole Sodium Delayed-Release Tablets with Methotrexate

Literature suggests that concomitant use of PPIs with methotrexate (primarily at high dose; see *methotrexate prescribing information*) may elevate and prolong serum levels of methotrexate and/or its metabolite, possibly leading to methotrexate toxicities. In high-dose methotrexate administration, a temporary withdrawal of the PPI may be considered in some patients [see *Drug Interactions (7.7)*].

6 ADVERSE REACTIONS

Worldwide, over 2900 patients have been treated with rabeprazole in Phase II-III clinical trials involving various dosages and durations of treatment.

Because clinical trials are conducted under varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

6.1 Clinical Studies Experience

Adults

The data described below reflect exposure to Rabeprazole Sodium Delayed-Release Tablets in 1064 adult patients exposed for up to 8 weeks. The studies were primarily placebo- and active-controlled trials in adult patients with Erosive or Ulcerative Gastroesophageal Reflux Disease (GERD), Duodenal Ulcers and Gastric Ulcers. The population had a mean age of 53 years (range 18-89 years) and had a ratio of approximately 60% male: 40% female. The racial distribution was 86% Caucasian, 8% African

American, 2% Asian and 5% other. Most patients received either 10 mg, 20 mg or 40 mg/day of Rabeprazole Sodium Delayed-Release Tablets.

An analysis of adverse reactions appearing in ³ 2% of Rabeprazole Sodium Delayed-Release Tablet patients (n=1064) and with a greater frequency than placebo (n=89) in controlled North American and European acute treatment trials, revealed the following adverse reactions: pain (3% vs. 1%), pharyngitis (3% vs. 2%), flatulence (3% vs. 1%), infection (2% vs. 1%), and constipation (2% vs. 1%).

Three long-term maintenance studies consisted of a total of 740 adult patients; at least 54% of adult patients were exposed to rabeprazole for 6 months while at least 33% were exposed for 12 months. Of the 740 adult patients, 247 (33%) and 241 (33%) patients received 10 mg and 20 mg of Rabeprazole Sodium Delayed-Release Tablets, respectively, while 169 (23%) patients received placebo and 83 (11%) received omeprazole.

The safety profile of rabeprazole in the maintenance studies in adults was consistent with what was observed in the acute studies.

Other adverse reactions that were seen in controlled clinical trials, which do not meet the above criteria ($\geq 2\%$ of Rabeprazole Sodium Delayed-Release Tablets treated patients and greater than placebo) and for which there is a possibility of a causal relationship to rabeprazole, include the following: headache, abdominal pain, diarrhea, dry mouth, dizziness, peripheral edema, hepatic enzyme increase, hepatitis, hepatic encephalopathy, myalgia, and arthralgia.

Combination Treatment with Amoxicillin and Clarithromycin: In clinical trials using combination therapy with rabeprazole plus amoxicillin and clarithromycin (RAC), no adverse reactions unique to this drug combination were observed. In the U.S. multicenter study, the most frequently reported drug related adverse reactions for patients who received RAC therapy for 7 or 10 days were diarrhea (8% and 7%) and taste perversion (6% and 10%), respectively.

No clinically significant laboratory abnormalities particular to the drug combinations were observed.

For more information on adverse reactions or laboratory changes with amoxicillin or clarithromycin, refer to their respective package prescribing information, *Adverse Reactions* section.

Pediatric

In a multicenter, open-label study of adolescent patients aged 12 to 16 years with a clinical diagnosis of symptomatic GERD or endoscopically proven GERD, the adverse event profile was similar to that of adults. The adverse reactions reported without regard to relationship to Rabeprazole Sodium Delayed-Release Tablets that occurred in $\geq 2\%$ of 111 patients were headache (9.9%), diarrhea (4.5%), nausea (4.5%), vomiting (3.6%), and abdominal pain (3.6%). The related reported adverse reactions that occurred in $\geq 2\%$ of patients were headache (5.4%) and nausea (1.8%). There were no adverse reactions reported in these studies that were not previously observed in adults.

6.2 Postmarketing Experience

The following adverse reactions have been identified during post approval use of Rabeprazole Sodium Delayed-Release Tablets. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure: sudden death; coma, hyperammonemia; jaundice; rhabdomyolysis; disorientation and delirium; anaphylaxis; angioedema; bullous and other drug eruptions of the skin; severe dermatologic reactions, including toxic epidermal necrolysis (some fatal), Stevens-Johnson syndrome, and erythema multiforme; interstitial pneumonia; interstitial nephritis; TSH elevations, bone fractures, hypomagnesemia and *Clostridium difficile* associated diarrhea. In addition, agranulocytosis, hemolytic anemia, leukopenia, pancytopenia, and thrombocytopenia have been reported. Increases in prothrombin time/INR in patients treated with concomitant warfarin have been reported.

7 DRUG INTERACTIONS

7.1 Drugs Metabolized by CYP450

Rabeprazole is metabolized by the cytochrome P450 (CYP450) drug metabolizing enzyme system. Studies in healthy subjects have shown that rabeprazole does not have clinically significant interactions with other drugs metabolized by the CYP450 system, such as warfarin and theophylline given as single oral doses, diazepam as a single intravenous dose, and phenytoin given as a single intravenous dose (with supplemental oral dosing). Steady state interactions of rabeprazole and other drugs metabolized by this enzyme system have not been studied in patients.

7.2 Warfarin

There have been reports of increased INR and prothrombin time in patients receiving proton pump inhibitors, including rabeprazole, and warfarin concomitantly. Increases in INR and prothrombin time may lead to abnormal bleeding and even death [see *Warnings and Precautions* (5.2)].

7.3 Cyclosporine

In vitro incubations employing human liver microsomes indicated that rabeprazole inhibited cyclosporine metabolism with an IC_{50} of 62 micromolar, a concentration that is over 50 times higher than the C_{max} in healthy volunteers following 14 days of dosing with 20 mg of rabeprazole. This degree of inhibition is similar to that by omeprazole at equivalent concentrations.

7.4 Compounds Dependent on Gastric pH for Absorption

Rabeprazole produces sustained inhibition of gastric acid secretion. An interaction with compounds which are dependent on gastric pH for absorption may occur due to the magnitude of acid suppression observed with rabeprazole. For example, in normal subjects, co-administration of rabeprazole 20 mg QD resulted in an approximately 30% decrease in the bioavailability of ketoconazole and increases in the AUC and C_{max} for digoxin of 19% and 29%, respectively. Therefore, patients may need to be monitored when such drugs are taken concomitantly with rabeprazole. Co-administration of rabeprazole and antacids produced no clinically relevant changes in plasma rabeprazole concentrations.

Concomitant use of atazanavir and proton pump inhibitors is not recommended. Co-administration of atazanavir with proton pump inhibitors is expected to substantially decrease atazanavir plasma concentrations and thereby reduce its therapeutic effect.

7.5 Drugs Metabolized by CYP2C19

In a clinical study in Japan evaluating rabeprazole in adult patients categorized by CYP2C19 genotype (n=6 per genotype category), gastric acid suppression was higher in poor metabolizers as compared to extensive metabolizers. This could be due to higher rabeprazole plasma levels in poor metabolizers. Whether or not interactions of rabeprazole sodium with other drugs metabolized by CYP2C19 would be different between extensive metabolizers and poor metabolizers has not been studied.

7.6 Combined Administration with Clarithromycin

Combined administration consisting of rabeprazole, amoxicillin, and clarithromycin resulted in increases in plasma concentrations of rabeprazole and 14-hydroxyclearithromycin [see *Clinical Pharmacology* (12.3)].

Concomitant administration of clarithromycin with other drugs can lead to serious adverse reactions due to drug interactions [see *Warnings and Precautions in prescribing information for clarithromycin*]. Because of these drug interactions, clarithromycin is contraindicated for co-administration with certain drugs [see *Contraindications in prescribing information for clarithromycin*] [see *Drug Interactions in prescribing information for amoxicillin*].

7.7 Methotrexate

Case reports, published population pharmacokinetic studies, and retrospective analyses suggest that concomitant administration of PPIs and methotrexate (primarily at high dose; *see methotrexate prescribing information*) may elevate and prolong serum levels of methotrexate and/or its metabolite hydroxymethotrexate. However, no formal drug interaction studies of methotrexate with PPIs have been conducted [*see Warnings and Precautions (5.6)*].

7.8 Clopidogrel

Concomitant administration of rabeprazole and clopidogrel in healthy subjects had no clinically meaningful effect on exposure to the active metabolite of clopidogrel [*see Clinical Pharmacology (12.3)*]. No dose adjustment of clopidogrel is necessary when administered with an approved dose of Rabeprazole Sodium Delayed-Release Tablets.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category B

Risk Summary

There are no adequate and well-controlled studies with Rabeprazole Sodium Delayed-Release Tablets in pregnant women. No evidence of teratogenicity was seen in animal reproduction studies with rabeprazole at 13 and 8 times the human exposure at the recommended dose for GERD, in rats and rabbits, respectively. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

Animal Data

Embryo-fetal developmental studies have been performed in rats at intravenous doses of rabeprazole up to 50 mg/kg/day (plasma AUC of 11.8 µg·hr/mL, about 13 times the human exposure at the recommended oral dose for GERD) and rabbits at intravenous doses up to 30 mg/kg/day (plasma AUC of 7.3 µg·hr/mL, about 8 times the human exposure at the recommended oral dose for GERD) and have revealed no evidence of harm to the fetus due to rabeprazole.

Administration of rabeprazole to rats in late gestation and during lactation at an oral dose of 400 mg/kg/day (about 195-times the human oral dose based on mg/m²) resulted in decreases in body weight gain of the pups.

8.3 Nursing Mothers

It is not known if Rabeprazole Sodium Delayed-Release Tablets is excreted in human milk; however, rabeprazole is present in rat milk. Because many drugs are excreted in milk, caution should be exercised when Rabeprazole Sodium Delayed-Release Tablets is administered to a nursing woman.

8.4 Pediatric Use

Symptomatic GERD in Adolescent Patients Greater or Equal to 12 Years of Age

In a multicenter, randomized, open-label, parallel-group study, 111 adolescent patients 12 to 16 years of age with a clinical diagnosis of symptomatic GERD, or suspected or endoscopically proven GERD were randomized and treated with either Rabeprazole Sodium 10 mg or Rabeprazole Sodium Delayed-Release Tablets 20 mg once daily for up to 8 weeks for the evaluation of safety and efficacy. The adverse event profile in adolescent patients was similar to that of adults. The related reported adverse reactions that occurred in ≥2% of patients were headache (5.4%) and nausea (1.8%). There were no adverse reactions reported in these studies that were not previously observed in adults.

8.5 Geriatric Use

Of the total number of subjects in clinical studies of Rabeprazole Sodium Delayed-Release Tablets, 19% were 65 years and over, while 4% were 75 years and over. No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

8.6 Gender

Duodenal ulcer and erosive esophagitis healing rates in women are similar to those in men. Adverse reactions and laboratory test abnormalities in women occurred at rates similar to those in men.

10 OVERDOSAGE

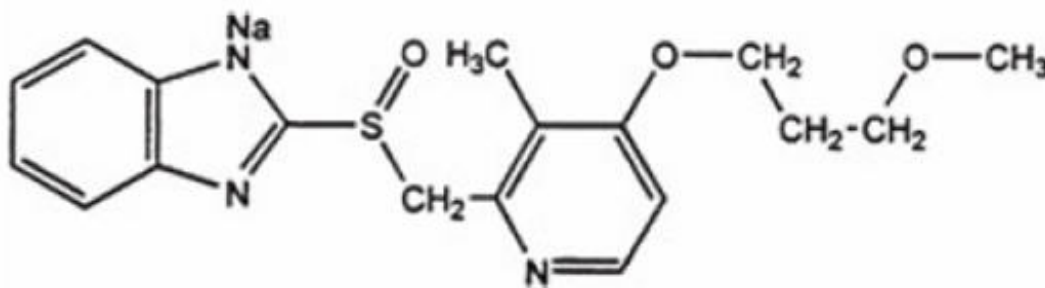
Because strategies for the management of overdose are continually evolving, it is advisable to contact a Poison Control Center to determine the latest recommendations for the management of an overdose of any drug. There has been no experience with large overdoses with rabeprazole. Seven reports of accidental overdosage with rabeprazole have been received. The maximum reported overdose was 80 mg. There were no clinical signs or symptoms associated with any reported overdose. Patients with Zollinger-Ellison syndrome have been treated with up to 120 mg rabeprazole QD. No specific antidote for rabeprazole is known. Rabeprazole is extensively protein bound and is not readily dialyzable. In the event of overdosage, treatment should be symptomatic and supportive.

Single oral doses of rabeprazole at 786 mg/kg and 1024 mg/kg were lethal to mice and rats, respectively. The single oral dose of 2000 mg/kg was not lethal to dogs. The major symptoms of acute toxicity were hypoactivity, labored respiration, lateral or prone position and convulsion in mice and rats and watery diarrhea, tremor, convulsion and coma in dogs.

11 DESCRIPTION

The active ingredient in Rabeprazole Sodium Delayed-Release Tablets is rabeprazole sodium, which is a proton pump inhibitor. It is a substituted benzimidazole known chemically as 2-[[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]-methyl]sulfinyl]-1H-benzimidazole sodium salt. It has an empirical formula of $C_{18}H_{20}N_3NaO_3S$ and a molecular weight of 381.42. Rabeprazole sodium is a white to slightly yellowish-white solid. It is very soluble in water and methanol, freely soluble in ethanol, chloroform and ethyl acetate and insoluble in ether and n-hexane. The stability of rabeprazole sodium is a function of pH; it is rapidly degraded in acid media, and is more stable under alkaline conditions. The structural formula is:

FIGURE 1



Rabeprazole Sodium Delayed-Release Tablets is available for oral administration as Delayed-Release, enteric-coated tablets containing 20 mg of rabeprazole sodium.

Inactive ingredients of the 20 mg tablet are crospovidone, FD&C Blue #1, glyceryl behenate, hypromellose, lactose monohydrate, methacrylic acid copolymer dispersion, talc and triethyl citrate.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Rabeprazole belongs to a class of antisecretory compounds (substituted benzimidazole proton-pump inhibitors) that do not exhibit anticholinergic or histamine H₂-receptor antagonist properties, but suppress gastric acid secretion by inhibiting the gastric H⁺, K⁺ATPase at the secretory surface of the gastric parietal cell. Because this enzyme is regarded as the acid (proton) pump within the parietal cell, rabeprazole has been characterized as a gastric proton-pump inhibitor. Rabeprazole blocks the final step of gastric acid secretion.

In gastric parietal cells, rabeprazole is protonated, accumulates, and is transformed to an active sulfenamide. When studied *in vitro*, rabeprazole is chemically activated at pH 1.2 with a half-life of 78 seconds. It inhibits acid transport in porcine gastric vesicles with a half-life of 90 seconds.

12.2 Pharmacodynamics

Antisecretory Activity

The antisecretory effect begins within one hour after oral administration of 20 mg Rabeprazole Sodium Delayed-Release Tablets. The median inhibitory effect of Rabeprazole Sodium Delayed-Release Tablets on 24 hour gastric acidity is 88% of maximal after the first dose. Rabeprazole Sodium Delayed-Release Tablets 20 mg inhibits basal and peptone meal-stimulated acid secretion versus placebo by 86% and 95%, respectively, and increases the percent of a 24-hour period that the gastric pH>3 from 10% to 65% (see table below). This relatively prolonged pharmacodynamic action compared to the short pharmacokinetic half-life (1-2 hours) reflects the sustained inactivation of the H⁺, K⁺ATPase.

TABLE 3 GASTRIC ACID PARAMETERS RABEPRAZOLE SODIUM DELAYED-RELEASE TABLETS VERSUS PLACEBO AFTER 7 DAYS OF ONCE DAILY DOSING

Parameter	Rabeprazole Sodium Delayed-Release Tablets (20 mg QD)	Placebo
Basal Acid Output (mmol/hr)	0.4*	2.8
Stimulated Acid Output (mmol/hr)	0.6*	13.3
% Time Gastric pH>3	65*	10

* (p>0.01 versus placebo)

Compared to placebo, Rabeprazole Sodium Delayed-Release Tablets, 10 mg, 20 mg, and 40 mg, administered once daily for 7 days significantly decreased intragastric acidity with all doses for each of four meal-related intervals and the 24-hour time period overall. In this study, there were no statistically significant differences between doses; however, there was a significant dose-related decrease in intragastric acidity. The ability of rabeprazole to cause a dose-related decrease in mean intragastric acidity is illustrated below.

TABLE 4 AUC ACIDITY (MMOL·HR/L) RABEPRAZOLE SODIUM DELAYED-RELEASE TABLETS VERSUS PLACEBO ON DAY 7 OF ONCE DAILY DOSING (MEAN±SD)

AUC interval (hrs)	Treatment			
	10 mg RBP (N=24)	20 mg RBP (N=24)	40 mg RBP (N=24)	Placebo (N=24)
08:00 – 13:00	19.6±21.5*	12.9±23*	7.6±14.7*	91.1±39.7
13:00 – 19:00	5.6±9.7*	8.3±29.8*	1.3±5.2*	95.5±48.7

19:00 – 22:00	0.1±0.1*	0.1±0.06*	0.0±0.02*	11.9±12.5
22:00 – 08:00	129.2±84*	109.6±67.2*	76.9±58.4*	479.9±165
AUC 0-24 hours	155.5±90.6*	130.9±81*	85.8±64.3*	678.5±216

* (p<0.001 versus placebo)

After administration of 20 mg Rabeprazole Sodium Delayed-Release Tablets once daily for eight days, the mean percent of time that gastric pH>3 or gastric pH>4 after a single dose (Day 1) and multiple doses (Day 8) was significantly greater than placebo (see table below). The decrease in gastric acidity and the increase in gastric pH observed with 20 mg Rabeprazole Sodium Delayed-Release Tablets administered once daily for eight days were compared to the same parameters for placebo, as illustrated below:

TABLE 5 GASTRIC ACID PARAMETERS RABEPRAZOLE SODIUM DELAYED-RELEASE TABLETS ONCE DAILY DOSING VERSUS PLACEBO ON DAY 1 AND DAY 8

Parameter	Rabeprazole Sodium Delayed-Release Tablets 20 mg QD		Placebo	
	Day 1	Day 8	Day 1	Day 8
Mean AUC ₀₋₂₄	340.8*	176.9*	925.5	862.4
Acidity				
Median trough pH (23-hr) †	3.77	3.51	1.27	1.38
% Time Gastric pH>3 ‡	54.6*	68.7*	19.1	21.7
% Time Gastric pH>4 ‡	44.1*	60.3*	7.6	11

* (p<0.001 versus placebo)

† No inferential statistics conducted for this parameter.

‡ Gastric pH was measured every hour over a 24-hour period.

Effects on Esophageal Acid Exposure

In patients with gastroesophageal reflux disease (GERD) and moderate to severe esophageal acid exposure, Rabeprazole Sodium Delayed-Release 20 mg and 40 mg tablets per day decreased 24-hour esophageal acid exposure. After seven days of treatment, the percentage of time that esophageal pH<4 decreased from baselines of 24.7% for 20 mg and 23.7% for 40 mg, to 5.1% and 2%, respectively. Normalization of 24-hour intraesophageal acid exposure was correlated to gastric pH>4 for at least 35% of the 24-hour period; this level was achieved in 90% of subjects receiving Rabeprazole Sodium Delayed-Release Tablets 20 mg and in 100% of subjects receiving Rabeprazole Sodium Delayed-Release Tablets 40 mg. With Rabeprazole Sodium Delayed-Release Tablets 20 mg and 40 mg per day, significant effects on gastric and esophageal pH were noted after one day of treatment, and more pronounced after seven days of treatment.

Effects on Serum Gastrin

In patients given daily doses of Rabeprazole Sodium Delayed-Release Tablets for up to eight weeks to treat ulcerative or erosive esophagitis and in patients treated for up to 52 weeks to prevent recurrence of disease the median fasting gastrin level increased in a dose-related manner. The group median values stayed within the normal range.

In a group of subjects treated daily with Rabeprazole Sodium Delayed-Release Tablets 20 mg for 4 weeks a doubling of mean serum gastrin concentrations were observed. Approximately 35% of these treated subjects developed serum gastrin concentrations above the upper limit of normal. In a study of CYP2C19 genotyped subjects in Japan, poor metabolizers developed statistically significantly higher

serum gastrin concentrations than extensive metabolizers.

Effects on Enterochromaffin-like (ECL) Cells

Increased serum gastrin secondary to antisecretory agents stimulates proliferation of gastric ECL cells which, over time, may result in ECL cell hyperplasia in rats and mice and gastric carcinoids in rats, especially in females [see *Nonclinical Toxicology (13.1)*].

In over 400 patients treated with Rabeprazole Sodium Delayed-Release Tablets (10 or 20 mg/day) for up to one year, the incidence of ECL cell hyperplasia increased with time and dose, which is consistent with the pharmacological action of the proton-pump inhibitor. No patient developed the adenomatoid, dysplastic or neoplastic changes of ECL cells in the gastric mucosa. No patient developed the carcinoid tumors observed in rats.

Endocrine Effects

Studies in humans for up to one year have not revealed clinically significant effects on the endocrine system. In healthy male volunteers treated with Rabeprazole Sodium Delayed-Release Tablets for 13 days, no clinically relevant changes have been detected in the following endocrine parameters examined: 17 β -estradiol, thyroid stimulating hormone, tri-iodothyronine, thyroxine, thyroxine-binding protein, parathyroid hormone, insulin, glucagon, renin, aldosterone, follicle-stimulating hormone, luteotrophic hormone, prolactin, somatotrophic hormone, dehydroepiandrosterone, cortisol-binding globulin, and urinary 6 β -hydroxycortisol, serum testosterone and circadian cortisol profile.

Other Effects

In humans treated with Rabeprazole Sodium Delayed-Release Tablets for up to one year, no systemic effects have been observed on the central nervous, lymphoid, hematopoietic, renal, hepatic, cardiovascular, or respiratory systems. No data are available on long-term treatment with Rabeprazole Sodium Delayed-Release Tablets and ocular effects.

Microbiology

The following *in vitro* data are available but the clinical significance is unknown.

Rabeprazole sodium, amoxicillin and clarithromycin as a three drug regimen has been shown to be active against most strains of *Helicobacter pylori* *in vitro* and in clinical infections as described in the *Clinical Studies (14)* and *Indications and Usage (1)* sections.

Helicobacter pylori

Susceptibility testing of *H. pylori* isolates was performed for amoxicillin and clarithromycin using agar dilution methodology¹, and minimum inhibitory concentrations (MICs) were determined.

Standardized susceptibility test procedures require the use of laboratory control microorganisms to control the technical aspects of the laboratory procedures.

Incidence of Antibiotic-Resistant Organisms Among Clinical Isolates

Pretreatment Resistance: Clarithromycin pretreatment resistance rate (MIC \geq 1 μ g/mL) to *H. pylori* was 9% (51/560) at baseline in all treatment groups combined. A total of > 99% (558/560) of patients had *H. pylori* isolates which were considered to be susceptible (MIC \leq 0.25 μ g/mL) to amoxicillin at baseline. Two patients had baseline *H. pylori* isolates with an amoxicillin MIC of 0.5 μ g/mL.

For susceptibility testing information about *Helicobacter pylori*, see *Microbiology section in prescribing information for clarithromycin and amoxicillin*.

TABLE 6 CLARITHROMYCIN SUSCEPTIBILITY TEST RESULTS AND CLINICAL/BACTERIOLOGIC OUTCOMES* FOR A THREE DRUG REGIMEN (RABEPRAZOLE 20 MG TWICE DAILY, AMOXICILLIN 1000 MG TWICE DAILY, AND CLARITHROMYCIN 500 MG TWICE DAILY FOR 7 OR 10 DAYS)

Days of RAC Therapy	Clarithromycin Pretreatment Results	Total Number	<i>H. pylori</i> Negative (Eradicated)	<i>H. pylori</i> Positive (Persistent) Post-Treatment Susceptibility Results			
				S †	I †	R †	No MIC
7	Susceptible †	129	103	2	0	1	23
7	Intermediate †	0	0	0	0	0	0
7	Resistant †	16	5	2	1	4	4
10	Susceptible †	133	111	3	1	2	16
10	Intermediate †	0	0	0	0	0	0
10	Resistant †	9	1	0	0	5	3

* Includes only patients with pretreatment and post-treatment clarithromycin susceptibility test results.

† Susceptible (S) MIC ≤ 0.25 µg/mL, Intermediate (I) MIC = 0.5 µg/mL, Resistant (R) MIC ≥ 1 µg/mL

Patients with persistent *H. pylori* infection following rabeprazole, amoxicillin, and clarithromycin therapy will likely have clarithromycin resistant clinical isolates. Therefore, clarithromycin susceptibility testing should be done when possible. If resistance to clarithromycin is demonstrated or susceptibility testing is not possible, alternative antimicrobial therapy should be instituted.

Amoxicillin Susceptibility Test Results and Clinical/Bacteriological Outcomes: In the U.S. multicenter study, a total of >99% (558/560) of patients had *H. pylori* isolates which were considered to be susceptible (MIC ≤ 0.25 µg/mL) to amoxicillin at baseline. The other 2 patients had baseline *H. pylori* isolates with an amoxicillin MIC of 0.5 µg/mL, and both isolates were clarithromycin-resistant at baseline; in one case the *H. pylori* was eradicated. In the 7- and 10-day treatment groups 75% (107/145) and 79% (112/142), respectively, of the patients who had pretreatment amoxicillin susceptible MICs (≤ 0.25 µg/mL) were eradicated of *H. pylori*. No patients developed amoxicillin-resistant *H. pylori* during therapy.

12.3 Pharmacokinetics

Rabeprazole Sodium Delayed-Release Tablets are enteric-coated to allow rabeprazole sodium, which is acid labile, to pass through the stomach relatively intact.

After oral administration of 20 mg Rabeprazole Sodium Delayed-Release Tablets, peak plasma concentrations (C_{max}) of rabeprazole occur over a range of 2 to 5 hours (T_{max}). The rabeprazole C_{max} and AUC are linear over an oral dose range of 10 mg to 40 mg. There is no appreciable accumulation when doses of 10 mg to 40 mg are administered every 24 hours; the pharmacokinetics of rabeprazole is not altered by multiple dosing.

Absorption: Absolute bioavailability for a 20 mg oral tablet of rabeprazole (compared to intravenous administration) is approximately 52%. When Rabeprazole Sodium Delayed-Release Tablets are administered with a high fat meal, T_{max} is variable; which concomitant food intake may delay the absorption up to 4 hours or longer. However, the C_{max} and the extent of rabeprazole absorption (AUC) are not significantly altered. Thus Rabeprazole Sodium Delayed-Release Tablets may be taken without regard to timing of meals.

Distribution: Rabeprazole is 96.3% bound to human plasma proteins.

Metabolism: Rabeprazole is extensively metabolized. A significant portion of rabeprazole is metabolized via systemic nonenzymatic reduction to a thioether compound. Rabeprazole is also metabolized to sulphone and desmethyl compounds via cytochrome P450 in the liver. The thioether and sulphone are the primary metabolites measured in human plasma. These metabolites were not observed to have significant antisecretory activity. *In vitro* studies have demonstrated that rabeprazole is metabolized in the liver primarily by cytochromes P450 3A (CYP3A) to a sulphone metabolite and cytochrome P450 2C19 (CYP2C19) to desmethyl rabeprazole. CYP2C19 exhibits a known genetic polymorphism due to its deficiency in some sub-populations (e.g. 3 to 5% of Caucasians and 17 to 20% of Asians). Rabeprazole metabolism is slow in these sub-populations, therefore, they are referred to as

poor metabolizers of the drug.

Elimination: Following a single 20 mg oral dose of ^{14}C -labeled rabeprazole, approximately 90% of the drug was eliminated in the urine, primarily as thioether carboxylic acid; its glucuronide, and mercapturic acid metabolites. The remainder of the dose was recovered in the feces. Total recovery of radioactivity was 99.8%. No unchanged rabeprazole was recovered in the urine or feces.

Geriatric: In 20 healthy elderly subjects administered 20 mg rabeprazole tablet once daily for seven days, AUC values approximately doubled and the C_{max} increased by 60% compared to values in a parallel younger control group. There was no evidence of drug accumulation after once daily administration [see *Use in Special Populations (8.5)*].

Pediatric: The pharmacokinetics of rabeprazole was studied in pediatric patients with GERD aged 12 to 16 years.

Patients 12 to 16 Years of Age

The pharmacokinetics of rabeprazole was studied in 12 adolescent patients with GERD 12 to 16 years of age, in a multicenter study. Patients received rabeprazole 20 mg tablets once daily for five or seven days. An approximate 40% increase in exposure was noted following 5 to 7 days of dosing compared with the exposure after 1 day dosing. Pharmacokinetic parameters in adolescent patients with GERD 12 to 16 years of age were within the range observed in healthy adult volunteers.

Gender and Race: In analyses adjusted for body mass and height, rabeprazole pharmacokinetics showed no clinically significant differences between male and female subjects. In studies that used different formulations of rabeprazole, $\text{AUC}_{0-\infty}$ values for healthy Japanese men were approximately 50-60% greater than values derived from pooled data from healthy men in the United States.

Renal Disease: In 10 patients with stable end-stage renal disease requiring maintenance hemodialysis (creatinine clearance $\leq 5 \text{ mL/min/1.73 m}^2$), no clinically significant differences were observed in the pharmacokinetics of rabeprazole after a single 20 mg oral dose when compared to 10 healthy volunteers [see *Dosage and Administration (2.9)*].

Hepatic Disease: In a single dose study of 10 patients with chronic mild to moderate compensated cirrhosis of the liver who were administered a 20 mg dose of rabeprazole, AUC_{0-24} was approximately doubled, the elimination half-life was 2- to 3-fold higher, and total body clearance was decreased to less than half compared to values in healthy men.

In a multiple dose study of 12 patients with mild to moderate hepatic impairment administered 20 mg rabeprazole once daily for eight days, $\text{AUC}_{0-\infty}$ and C_{max} values increased approximately 20% compared to values in healthy age- and gender-matched subjects. These increases were not statistically significant.

No information exists on rabeprazole disposition in patients with severe hepatic impairment. Please refer to the *Dosage and Administration (2.9)* for information on dosage adjustment in patients with hepatic impairment.

Combined Administration with Antimicrobials: Sixteen healthy volunteers genotyped as extensive metabolizers with respect to CYP2C19 were given 20 mg rabeprazole sodium, 1000 mg amoxicillin, 500 mg clarithromycin, or all 3 drugs in a four-way crossover study. Each of the four regimens was administered twice daily for 6 days. The AUC and C_{max} for clarithromycin and amoxicillin were not different following combined administration compared to values following single administration. However, the rabeprazole AUC and C_{max} increased by 11% and 34%, respectively, following combined administration. The AUC and C_{max} for 14-hydroxylarithromycin (active metabolite of clarithromycin) also increased by 42% and 46%, respectively. This increase in exposure to rabeprazole and 14-hydroxylarithromycin is not expected to produce safety concerns.

Concomitant Use with Clopidogrel: Clopidogrel is metabolized to its active metabolite in part by CYP2C19. A study of healthy subjects including CYP2C19 extensive and intermediate metabolizers

receiving once daily administration of clopidogrel 75 mg concomitantly with placebo or with Rabeprazole Sodium Delayed-Release Tablets 20 mg (n=36), for 7 days was conducted. The mean AUC of the active metabolite of clopidogrel was reduced by approximately 12% (mean AUC ratio was 88 %, with 90% CI of 81.7 to 95.5%) when Rabeprazole Sodium Delayed-Release Tablets was coadministered compared to administration of clopidogrel with placebo.

13 NONCLINICAL PHARMACOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

In a 88/104-week carcinogenicity study in CD-1 mice, rabeprazole at oral doses up to 100 mg/kg/day did not produce any increased tumor occurrence. The highest tested dose produced a systemic exposure to rabeprazole (AUC) of 1.40 $\mu\text{g}\cdot\text{hr}/\text{mL}$ which is 1.6 times the human exposure (plasma $\text{AUC}_{0-\infty} = 0.88 \mu\text{g}\cdot\text{hr}/\text{mL}$) at the recommended dose for GERD (20 mg/day). In a 28-week carcinogenicity study in p53^{+/-} transgenic mice, rabeprazole at oral doses of 20, 60, and 200 mg/kg/day did not cause an increase in the incidence rates of tumors but produced gastric mucosal hyperplasia at all doses. The systemic exposure to rabeprazole at 200 mg/kg/day is about 17-24 times the human exposure at the recommended dose for GERD. In a 104-week carcinogenicity study in Sprague-Dawley rats, males were treated with oral doses of 5, 15, 30 and 60 mg/kg/day and females with 5, 15, 30, 60 and 120 mg/kg/day. Rabeprazole produced gastric enterochromaffin-like (ECL) cell hyperplasia in male and female rats and ECL cell carcinoid tumors in female rats at all doses including the lowest tested dose. The lowest dose (5 mg/kg/day) produced a systemic exposure to rabeprazole (AUC) of about 0.1 $\mu\text{g}\cdot\text{hr}/\text{mL}$ which is about 0.1 times the human exposure at the recommended dose for GERD. In male rats, no treatment related tumors were observed at doses up to 60 mg/kg/day producing a rabeprazole plasma exposure (AUC) of about 0.2 $\mu\text{g}\cdot\text{hr}/\text{mL}$ (0.2 times the human exposure at the recommended dose for GERD).

Rabeprazole was positive in the Ames test, the Chinese hamster ovary cell (CHO/HGPRT) forward gene mutation test and the mouse lymphoma cell (L5178Y/TK+/-) forward gene mutation test. Its demethylated-metabolite was also positive in the Ames test. Rabeprazole was negative in the *in vitro* Chinese hamster lung cell chromosome aberration test, the *in vivo* mouse micronucleus test, and the *in vivo* and *ex vivo* rat hepatocyte unscheduled DNA synthesis (UDS) tests.

Rabeprazole at intravenous doses up to 30 mg/kg/day (plasma AUC of 8.8 $\mu\text{g}\cdot\text{hr}/\text{mL}$, about 10 times the human exposure at the recommended dose for GERD) was found to have no effect on fertility and reproductive performance of male and female rats.

13.2 Animal Toxicology and/or Pharmacology

Studies in juvenile and young adult rats and dogs were performed. In juvenile animal studies rabeprazole sodium was administered orally to rats for up to 5 weeks and to dogs for up to 13 weeks, each commencing on Day 7 postpartum and followed by a 13-week recovery period. Rats were dosed at 5, 25 or 150 mg/kg/day and dogs were dosed at 3, 10 or 30 mg/kg/day. The data from these studies were comparable to those reported for young adult animals. Pharmacologically mediated changes, including increased serum gastrin levels and stomach changes, were observed at all dose levels in both rats and dogs. These observations were reversible over the 13-week recovery periods. Although body weights and/or crown-rump lengths were minimally decreased during dosing, no effects on the development parameters were noted in either juvenile rats or dogs.

14 CLINICAL STUDIES

14.1 Healing of Erosive or Ulcerative GERD in Adults

In a U.S., multicenter, randomized, double-blind, placebo-controlled study, 103 patients were treated for up to eight weeks with placebo, 10 mg, 20 mg or 40 mg Rabeprazole Sodium Delayed-Release Tablets

QD. For this and all studies of GERD healing, only patients with GERD symptoms and at least grade 2 esophagitis (modified Hetzel-Dent grading scale) were eligible for entry. Endoscopic healing was defined as grade 0 or 1. Each rabeprazole dose was significantly superior to placebo in producing endoscopic healing after four and eight weeks of treatment. The percentage of patients demonstrating endoscopic healing was as follows:

TABLE 7 HEALING OF EROSIIVE OR ULCERATIVE GASTROESOPHAGEAL REFLUX DISEASE (GERD) PERCENTAGE OF PATIENTS HEALED

Week	10 mg Rabeprazole Sodium Delayed- Release Tablets QD N=27	20 mg Rabeprazole Sodium Delayed- Release Tablets QD N=25	40 mg Rabeprazole Sodium Delayed- Release Tablets QD N=26	Placebo N=25
4	63%*	56%*	54%*	0%
8	93%*	84%*	85%*	12%

* (p<0.001 versus placebo)

In addition, there was a statistically significant difference in favor of the Rabeprazole Sodium Delayed-Release Tablets 10 mg, 20 mg, and 40 mg doses compared to placebo at Weeks 4 and 8 regarding complete resolution of GERD heartburn frequency (p≤0.026). All Rabeprazole Sodium Delayed-Release Tablets groups reported significantly greater rates of complete resolution of GERD daytime heartburn severity compared to placebo at Weeks 4 and 8 (p≤0.036). Mean reductions from baseline in daily antacid dose were statistically significant for all Rabeprazole Sodium Delayed-Release Tablets groups when compared to placebo at both Weeks 4 and 8 (p≤0.007).

In a North American multicenter, randomized, double-blind, active-controlled study of 336 patients, Rabeprazole Sodium Delayed-Release Tablets was statistically superior to ranitidine with respect to the percentage of patients healed at endoscopy after four and eight weeks of treatment (see table below):

TABLE 8 HEALING OF EROSIIVE OR ULCERATIVE GASTROESOPHAGEAL REFLUX DISEASE (GERD) PERCENTAGE OF PATIENTS HEALED

Week	Rabeprazole Sodium Delayed- Release Tablets 20 mg QD N=167	Ranitidine 150 mg QID N=169
4	59%*	36%
8	87%*	66%

* (p<0.001 versus ranitidine)

Rabeprazole Sodium Delayed-Release Tablets 20 mg once daily was significantly more effective than ranitidine 150 mg QID in the percentage of patients with complete resolution of heartburn at Weeks 4 and 8 (p<0.001). Rabeprazole Sodium Delayed-Release Tablets 20 mg once daily was also more effective in complete resolution of daytime heartburn (p≤0.025), and nighttime heartburn (p≤0.012) at both Weeks 4 and 8, with significant differences by the end of the first week of the study.

14.2 Long-term Maintenance of Healing of Erosive or Ulcerative GERD in Adults

The long-term maintenance of healing in patients with erosive or ulcerative GERD previously healed with gastric antisecretory therapy was assessed in two U.S., multicenter, randomized, double-blind, placebo-controlled studies of identical design of 52 weeks duration. The two studies randomized 209

and 285 patients, respectively, to receive either 10 mg or 20 mg of Rabeprazole Sodium Delayed-Release Tablets QD or placebo. As demonstrated in the tables below, Rabeprazole Sodium Delayed-Release Tablets was significantly superior to placebo in both studies with respect to the maintenance of healing of GERD and the proportions of patients remaining free of heartburn symptoms at 52 weeks:

TABLE 9 PERCENT OF PATIENTS IN ENDOSCOPIC REMISSION

	Rabeprazole Sodium Delayed-Release Tablets 10 mg	Rabeprazole Sodium Delayed-Released Tablets 20 mg	Placebo
Study 1	N=66	N=67	N=70
Week 4	83%*	96%*	44%
Week 13	79%*	93%*	39%
Week 26	77%*	93%*	31%
Week 39	76%*	91%*	30%
Week 52	73%*	90%*	29%
Study 2	N=93	N=93	N=99
Week 4	89%*	94%*	40%
Week 13	86%*	91%*	33%
Week 26	85%*	89%*	30%
Week 39	84%*	88%*	29%
Week 52	77%*	86%*	29%
COMBINED STUDIES	N=159	N=160	N=169
Week 4	87%*	94%*	42%
Week 13	83%*	92%*	36%
Week 26	82%*	91%*	31%
Week 39	81%*	89%*	30%
Week 52	75%*	87%*	29%

* (p<0.001 versus placebo)

TABLE 10 PERCENT OF PATIENTS WITHOUT RELAPSE IN HEARTBURN FREQUENCY AND DAYTIME AND NIGHTTIME HEARTBURN SEVERITY AT WEEK 52

	Rabeprazole Sodium Delayed-Release Tablets 10 mg	Rabeprazole Sodium Delayed-Release Tablets 20 mg	Placebo
Heartburn Frequency			
Study 1	46/55 (84%)*	48/52 (92%)*	17/45 (38%)
Study 2	50/72 (69%)*	57/72 (79%)*	22/79 (28%)
Daytime Heartburn Severity			
Study 1	61/64 (95%)*	60/62 (97%)*	42/61 (69%)
Study 2	73/84 (87%)†	82/87 (94%)*	67/90 (74%)
Nighttime Heartburn Severity			
Study 1	57/61 (93%)*	60/61 (98%)*	37/56 (66%)
Study 2	67/80 (84%)	79/87 (91%)†	64/87 (74%)

* p<0.001 versus placebo

† 0.001<p<0.05 versus placebo

14.3 Treatment of Symptomatic GERD in Adults

Two U.S., multicenter, double-blind, placebo controlled studies were conducted in 316 adult patients with daytime and nighttime heartburn. Patients reported 5 or more periods of moderate to very severe heartburn during the placebo treatment phase the week prior to randomization. Patients were confirmed by endoscopy to have no esophageal erosions.

The percentage of heartburn free daytime and/or nighttime periods was greater with Rabeprazole Sodium Delayed-Release Tablets 20 mg compared to placebo over the 4 weeks of study in Study RAB-USA-2 (47% vs. 23%) and Study RAB-USA-3 (52% vs. 28%). The mean decreases from baseline in average daytime and nighttime heartburn scores were significantly greater for Rabeprazole Sodium Delayed-Release Tablets 20 mg as compared to placebo at week 4. Graphical displays depicting the daily mean daytime and nighttime scores are provided in Figures 2 to 5.

FIGURE 2: MEAN DAYTIME HEARTBURN SCORES RAB-USA-2

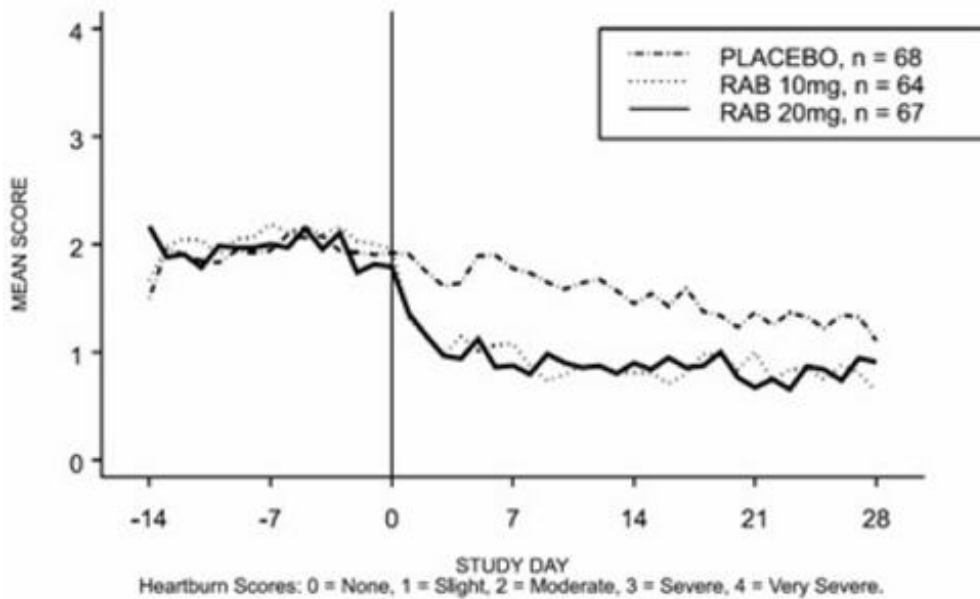


FIGURE 3: MEAN NIGHTTIME HEARTBURN SCORES RAB-USA-2

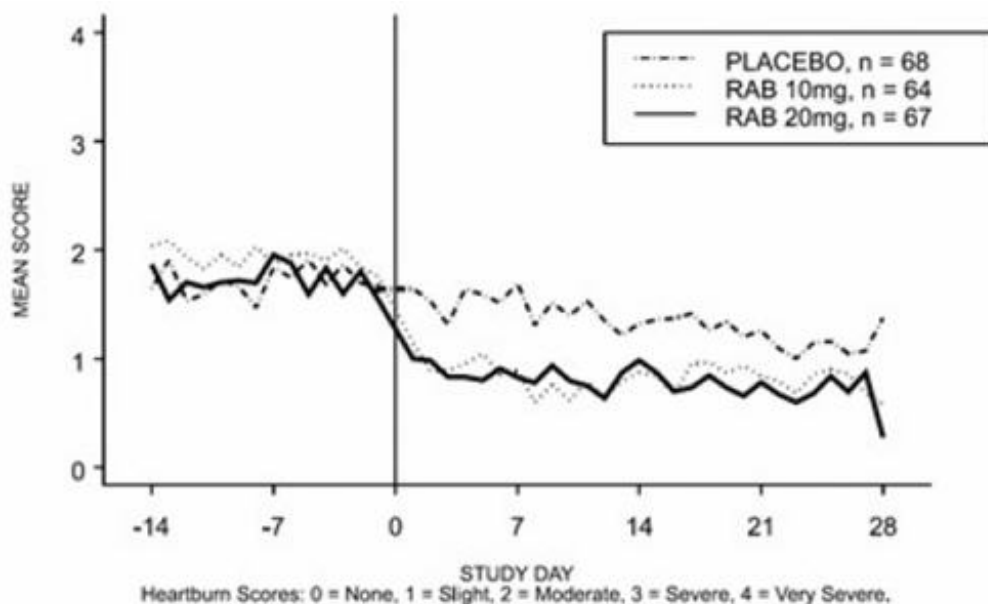


FIGURE 4: MEAN DAYTIME HEARTBURN SCORES RAB-USA-3

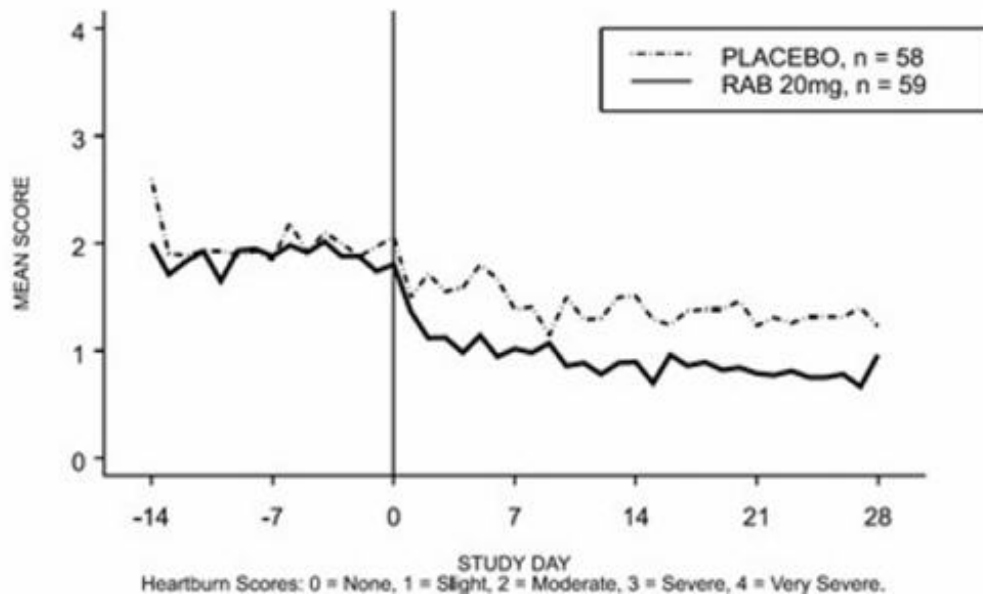
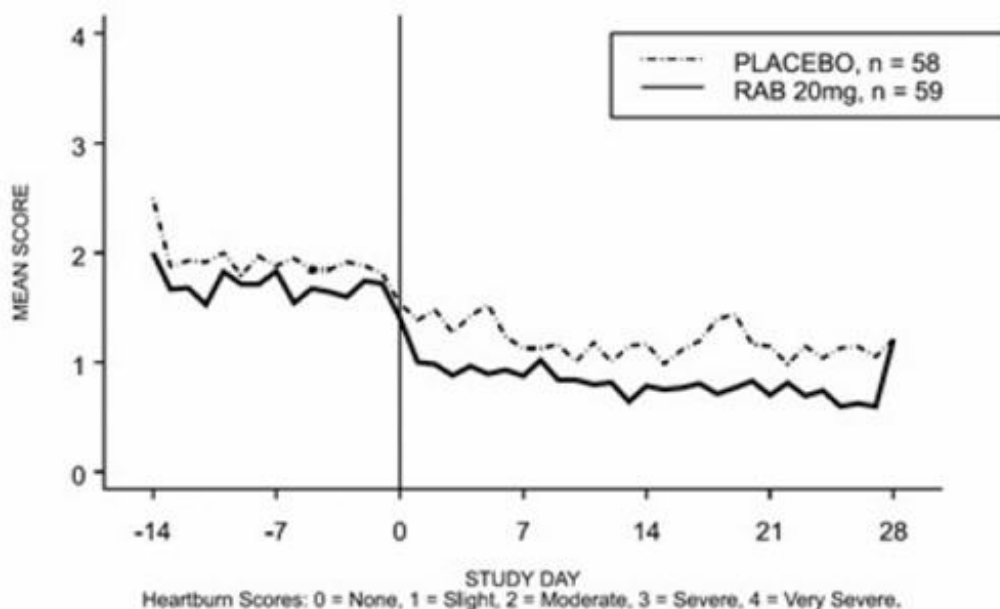


FIGURE 5: MEAN NIGHTTIME HEARTBURN SCORES RAB-USA-3



In addition, the combined analysis of these two studies showed Rabeprazole Sodium Delayed-Release Tablets 20 mg significantly improved other GERD-associated symptoms (regurgitation, belching and early satiety) by week 4 compared with placebo (all p values < 0.005).

Rabeprazole Sodium Delayed-Release Tablets 20 mg also significantly reduced daily antacid consumption versus placebo over 4 weeks (p<0.001).

14.4 Healing of Duodenal Ulcers in Adults

In a U.S., randomized, double-blind, multicenter study assessing the effectiveness of 20 mg and 40 mg of Rabeprazole Sodium Delayed-Release Tablets QD versus placebo for healing endoscopically defined duodenal ulcers, 100 patients were treated for up to four weeks. Rabeprazole Sodium Delayed-

Release Tablets was significantly superior to placebo in producing healing of duodenal ulcers. The percentages of patients with endoscopic healing are presented below:

TABLE 11 HEALING OF DUODENAL ULCERS PERCENTAGE OF PATIENTS HEALED

Week	Rabeprazole Sodium Delayed-Release Tablets 20 mg QD N=34	Rabeprazole Sodium Delayed-Release Tablets 40 mg QD N=33	Placebo N=33
2	44%	42%	21%
4	79%*	91%*	39%

* $p \leq 0.001$ versus placebo

At Weeks 2 and 4, significantly more patients in the Rabeprazole Sodium Delayed-Release Tablets 20 and 40 mg groups reported complete resolution of ulcer pain frequency ($p \leq 0.018$), daytime pain severity ($p \leq 0.023$), and nighttime pain severity ($p \leq 0.035$) compared with placebo patients. The only exception was the Rabeprazole Sodium Delayed-Release Tablets 40 mg group versus placebo at Week 2 for duodenal ulcer pain frequency ($p = 0.094$). Significant differences in resolution of daytime and nighttime pain were noted in both Rabeprazole Sodium Delayed-Release Tablets groups relative to placebo by the end of the first week of the study. Significant reductions in daily antacid use were also noted in both Rabeprazole Sodium Delayed-Release Tablets groups compared to placebo at Weeks 2 and 4 ($p < 0.001$).

An international randomized, double-blind, active-controlled trial was conducted in 205 patients comparing 20 mg Rabeprazole Sodium Delayed-Release Tablets QD with 20 mg omeprazole QD. The study was designed to provide at least 80% power to exclude a difference of at least 10% between Rabeprazole Sodium Delayed-Release Tablets and omeprazole, assuming four-week healing response rates of 93% for both groups. In patients with endoscopically defined duodenal ulcers treated for up to four weeks, Rabeprazole Sodium Delayed-Release Tablets was comparable to omeprazole in producing healing of duodenal ulcers. The percentages of patients with endoscopic healing at two and four weeks are presented below:

TABLE 12 HEALING OF DUODENAL ULCERS PERCENTAGE OF PATIENTS HEALED

Week	Rabeprazole Sodium Delayed-Release Tablets 20 mg QD N=102	Omeprazole 20 mg QD N=103	95% Confidence Interval for the Treatment Difference (Rabeprazole Sodium Delayed-Release Tablets – Omeprazole)
2	69%	61%	(-6%, 22%)
4	98%	93%	(-3%, 15%)

Rabeprazole Sodium Delayed-Release Tablets and omeprazole were comparable in providing complete resolution of symptoms.

14.5 *Helicobacter pylori* Eradication in Patients with Peptic Ulcer Disease or Symptomatic Non-Ulcer Disease in Adults

The U.S. multicenter study was a double-blind, parallel-group comparison of rabeprazole, amoxicillin, and clarithromycin for 3, 7, or 10 days vs. omeprazole, amoxicillin and clarithromycin for 10 days. Therapy consisted of rabeprazole 20 mg twice daily, amoxicillin 1000 mg twice daily, and

clarithromycin 500 mg twice daily (RAC) or omeprazole 20 mg twice daily, amoxicillin 1000 mg twice daily, and clarithromycin 500 mg twice daily (OAC). Patients with *H. pylori* infection were stratified in a 1:1 ratio for those with peptic ulcer disease (active or a history of ulcer in the past five years) [PUD] and those who were symptomatic but without peptic ulcer disease [NPUD], as determined by upper gastrointestinal endoscopy. The overall *H. pylori* eradication rates, defined as negative ¹³C-UBT for *H. pylori* ≥ 6 weeks from the end of the treatment are shown in the following table. The eradication rates in the 7-day and 10-day RAC regimens were found to be similar to 10-day OAC regimen using either the Intent-to-Treat (ITT) or Per-Protocol (PP) populations. Eradication rates in the RAC 3-day regimen were inferior to the other regimens.

TABLE 13 HELICOBACTER PYLORI ERADICATION AT ≥ 6 WEEKS AFTER THE END OF TREATMENT

	Treatment Group Percent (%) of Patients Cured (Number of Patients)		Difference (RAC-OAC) [95% Confidence Interval]
	7-day RAC*	10-day OAC	
Per Protocol †	84.3% (N=166)	81.6% (N=179)	2.8 [-5.2, 10.7]
Intent-to-Treat ‡	77.3% (N=194)	73.3% (N=206)	4 [-4.4, 12.5]
	10-day RAC*	10-day OAC	
Per Protocol †	86% (N=171)	81.6% (N=179)	4.4 [-3.3, 12.1]
Intent-to-Treat ‡	78.1% (N=196)	73.3% (N=206)	4.8 [-3.6, 13.2]
	3-day RAC	10-day OAC	
Per Protocol †	29.9% (N=167)	81.6% (N=179)	-51.6 [-60.6, -42.6]
Intent-to-Treat ‡	27.3% (N=187)	73.3% (N=206)	-46 [-54.8, -37.2]

* The 95% confidence intervals for the difference in eradication rates for 7-day RAC minus 10-day RAC are (-9.3, 6) in the PP population and (-9, 7.5) in the ITT population.

† Patients were included in the analysis if they had *H. pylori* infection documented at baseline, defined as a positive ¹³C-UBT plus rapid urease test or culture and were not protocol violators. Patients who dropped out of the study due to an adverse event related to the study drug were included in the evaluable analysis as failures of therapy.

‡ Patients were included in the analysis if they had documented *H. pylori* infection at baseline as defined above and took at least one dose of study medication. All dropouts were included as failures of therapy.

14.6 Pathological Hypersecretory Conditions, Including Zollinger-Ellison Syndrome in Adults

Twelve patients with idiopathic gastric hypersecretion or Zollinger-Ellison syndrome have been treated successfully with Rabeprazole Sodium Delayed-Release Tablets at doses from 20 to 120 mg for up to 12 months. Rabeprazole Sodium Delayed-Release Tablets produced satisfactory inhibition of gastric acid secretion in all patients and complete resolution of signs and symptoms of acid-peptic disease where present. Rabeprazole Sodium Delayed-Release Tablets also prevented recurrence of gastric hypersecretion and manifestations of acid-peptic disease in all patients. The high doses of Rabeprazole Sodium Delayed-Release Tablets used to treat this small cohort of patients with gastric hypersecretion were well tolerated.

14.7 Pediatric GERD

Symptomatic GERD in Adolescents 12 to 16 Years of Age

In a multicenter, randomized, open-label, parallel-group study, 111 adolescent patients 12 to 16 years of age with a clinical diagnosis of symptomatic GERD or suspected or endoscopically proven GERD were randomized and treated with either Rabeprazole Sodium Delayed-Release Tablets 10 mg or Rabeprazole Sodium Delayed-Release Tablets 20 mg once daily for up to 8 weeks for the evaluation of safety and efficacy.

15 REFERENCES

1. National Committee for Clinical Laboratory Standards. *Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria That Grow Aerobically*-Fifth Edition. Approved Standard NCCLS Document M7-A5, Vol. 20, No. 2, NCCLS, Wayne, PA, January 2000.

16 HOW SUPPLIED/STORAGE AND HANDLING

Rabeprazole Sodium Delayed-Release Tablets 20 mg is supplied as delayed-release blue enteric-coated round tablets debossed with "KU" on one side and "7" on the other.

Bottles of 30	NDC 63187-259-30
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Bottles of 60 NDC 63187-259-60

Store at 25°C (77°F); excursions permitted to 15°-30°C (59°-86°F) [see USP Controlled Room Temperature]. Protect from moisture.

17 PATIENT COUNSELING INFORMATION

See FDA-approved patient labeling (Medication Guide).

How to Take Rabeprazole Sodium Delayed-Release Tablets

Patients should be cautioned that Rabeprazole Sodium Delayed-Release Tablets should be swallowed whole. The tablets should not be chewed, crushed, or split. Rabeprazole Sodium Delayed-Release Tablets can be taken with or without food.

Advise patients to immediately report and seek care for diarrhea that does not improve. This may be a sign of *Clostridium difficile* associated diarrhea [see *Warnings and Precautions* (5.3)].

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Thousand Oaks, CA 91320

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MEDICATION GUIDE

Rabeprazole Sodium Delayed-Release Tablets

CIA76375B
Rev. 2E 10/2013

Read the Medication Guide that comes with Rabeprazole Sodium Delayed-Release Tablets before you start taking it and each time you get a refill. There may be new information. This Medication Guide does

not take the place of talking to your doctor about your medical condition or treatment.

What is the most important information I should know about Rabeprazole Sodium Delayed-Release Tablets?

Rabeprazole Sodium Delayed-Release Tablets may help your acid-related symptoms, but you could still have serious stomach problems. Talk with your doctor.

Rabeprazole Sodium Delayed-Release Tablets can cause serious side effects, including:

- **Diarrhea.** Rabeprazole Sodium Delayed-Release Tablets may increase your risk of getting severe diarrhea. This diarrhea may be caused by an infection (*Clostridium difficile*) in your intestines.
Call your doctor right away if you have watery stool, stomach pain, and fever that does not go away.
- **Bone fractures.** People who take multiple daily doses of Proton Pump Inhibitor medicines for a long period of time (1 year or longer) may have an increased risk of fractures of the hip, wrist, or spine. You should take Rabeprazole Sodium Delayed-Release Tablets exactly as prescribed, at the lowest dose possible for your treatment and for the shortest time needed. Talk to your doctor about your risk of bone fracture if you take Rabeprazole Sodium Delayed-Release Tablets. Rabeprazole Sodium Delayed-Release Tablets can have other serious side effects. See "**What are the possible side effects of Rabeprazole Sodium Delayed-Release Tablets?**"

What is Rabeprazole Sodium Delayed-Release Tablets?

Rabeprazole Sodium Delayed-Release Tablet is a prescription medicine called a proton pump inhibitor (PPI). Rabeprazole Sodium Delayed-Release Tablets reduces the amount of acid in your stomach.

Rabeprazole Sodium Delayed-Release Tablets is used in adults:

- for up to 8 weeks to heal acid-related damage to the lining of the esophagus (called erosive esophagitis or EE) and to relieve symptoms, such as heartburn pain. If needed, your doctor may decide to prescribe another 8 weeks of Rabeprazole Sodium Delayed-Release Tablets.
- to maintain the healing of the esophagus and relief of symptoms related to EE. It is not known if Rabeprazole Sodium Delayed-Release Tablets is safe and effective if used longer than 12 months (1 year).
- for 4 weeks to treat daytime and nighttime heartburn and other symptoms that happen with Gastroesophageal Reflux Disease (GERD).
GERD happens when acid in your stomach backs up into the tube (esophagus) that connects your mouth to your stomach. This may cause a burning feeling in your chest or throat, sour taste, or burping.
- for up to 4 weeks for the healing and relief of duodenal ulcers. The duodenal area is the area where food passes when it leaves the stomach.
- for 7 days with certain antibiotic medicines to treat an infection caused by bacteria called *H. pylori*. Sometimes *H. pylori* bacteria can cause duodenal ulcers. The infection needs to be treated to prevent the ulcers from coming back.
- for the long-term treatment of conditions where your stomach makes too much acid. This includes a rare condition called Zollinger-Ellison syndrome.
Rabeprazole Sodium Delayed-Release Tablets is used in adolescents 12 years of age and older:
- for up to 8 weeks to treat daytime and nighttime heartburn and other symptoms that happen with Gastroesophageal Reflux Disease (GERD).

It is not known if Rabeprazole Sodium Delayed-Release Tablets is safe and effective in children under the age of 12.

Who should not take Rabeprazole Sodium Delayed-Release Tablets?

Do not take Rabeprazole Sodium Delayed-Release Tablets if you:

- are allergic to rabeprazole or any of the other ingredients in Rabeprazole Sodium Delayed-Release Tablets. See the end of this Medication Guide for a complete list of ingredients in Rabeprazole Sodium Delayed-Release Tablets.
- are allergic to any other Proton Pump Inhibitor (PPI) medicine.

What should I tell my doctor before taking Rabeprazole Sodium Delayed-Release Tablets?

Before you take Rabeprazole Sodium Delayed-Release Tablets tell your doctor if you:

- have been told that you have low magnesium levels in your blood.
- have liver problems.
- have any allergies.
- have any other medical conditions.
- are pregnant or planning to become pregnant. It is not known if Rabeprazole Sodium Delayed-Release Tablets can harm your unborn baby.
- are breastfeeding. It is not known if Rabeprazole Sodium Delayed-Release Tablets passes into your breast milk. You and your doctor should decide if you will take Rabeprazole Sodium Delayed-Release Tablets or breastfeed. You should not do both. Talk to your doctor about the best way to feed your baby if you take Rabeprazole Sodium Delayed-Release Tablets.

Tell your doctor about all the medicines you take, including prescription and non-prescription medicines, vitamins and herbal supplements. Rabeprazole Sodium Delayed-Release Tablets may affect how other medicines work, and other medicines may affect how Rabeprazole Sodium Delayed-Release Tablets works.

Especially tell your doctor if you take:

- atazanavir (Reyataz)
- cyclosporine (Sandimmune, Neoral)
- digoxin (Lanoxin)
- ketoconazole (Nizoral)
- warfarin (Coumadin)
- theophylline (THEO-24 Thelair)
- diazepam (Valium)
- phenytoin (Dilantin)
- an antibiotic that contains amoxicillin or clarithromycin
- a "water pill" (diuretic)
- methotrexate

Ask your doctor or pharmacist for a list of these medicines, if you are not sure.

Know the medicines that you take. Keep a list of them to show your doctor and pharmacist when you get a new medicine.

How should I take Rabeprazole Sodium Delayed-Release Tablets?

- Take Rabeprazole Sodium Delayed-Release Tablets exactly as prescribed. Your doctor will prescribe the dose that is right for you and your medical condition. Do not change your dose or stop taking Rabeprazole Sodium Delayed-Release Tablets unless you talk to your doctor. Take

Rabeprazole Sodium Delayed-Release Tablets for as long as it is prescribed even if you feel better.

- Rabeprazole Sodium Delayed-Release Tablets is usually taken one time each day. Your doctor will tell you the time of day to take Rabeprazole Sodium Delayed-Release Tablets, based on your medical condition.
- Rabeprazole Sodium Delayed-Release Tablets can be taken with or without food. Your doctor will tell you whether to take this medicine with or without food based on your medical condition.
- Swallow each Rabeprazole Sodium Delayed-Release Tablet whole with water. **Do not chew, crush, or split Rabeprazole Sodium Delayed-Release Tablets.** Tell your doctor if you cannot swallow tablets whole. You may need a different medicine.
- **If you miss a dose of Rabeprazole Sodium Delayed-Release Tablets, take it as soon as possible. If it is almost time for your next dose, skip the missed dose and go back to your normal schedule. Do not take 2 doses at the same time.**
- If you take too much Rabeprazole Sodium Delayed-Release Tablets, call your doctor or Poison Control Center right away, or go to the nearest hospital emergency room.
- Your doctor may prescribe antibiotic medicines with Rabeprazole Sodium Delayed-Release Tablets to help treat a stomach infection and heal stomach (duodenal) ulcers that are caused by bacteria called *H. pylori*. Make sure you read the patient information that comes with an antibiotic before you start taking it.

What are the possible side effects of Rabeprazole Sodium Delayed-Release Tablets?

Rabeprazole Sodium Delayed-Release Tablets can cause serious side effects including:

- See "**What is the most important information I should know about Rabeprazole Sodium Delayed-Release Tablets?**"
- **Low magnesium levels in your body.** This problem can be serious. Low magnesium can happen in some people who take a proton pump inhibitor medicine for at least 3 months. If low magnesium levels happen, it is usually after a year of treatment. You may or may not have symptoms of low magnesium.

Tell your doctor right away if you have any of these symptoms:

- seizures
- dizziness
- abnormal or fast heart beat
- jitteriness
- jerking movements or shaking (tremors)
- muscle weakness
- spasms of the hands and feet
- cramps or muscle aches
- spasm of the voice box

Your doctor may check the level of magnesium in your body before you start taking Rabeprazole Sodium Delayed-Release Tablets, during treatment, or if you will be taking Rabeprazole Sodium Delayed-Release Tablets for a long period of time.

The most common side effects with Rabeprazole Sodium Delayed-Release Tablets include:

- headache
- pain

- sore throat
- gas
- infection
- constipation

Other side effects:

- **Serious allergic reactions.** Tell your doctor if you have any of the following symptoms with Rabeprazole Sodium Delayed-Release Tablets.
- rash
- face swelling
- throat tightness
- difficulty breathing

Your doctor may stop Rabeprazole Sodium Delayed-Release Tablets if these symptoms happen.

Tell your doctor if you have any side effect that bothers you or that does not go away. These are not all the side effects of Rabeprazole Sodium Delayed-Release Tablets. For more information, ask your doctor or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store Rabeprazole Sodium Delayed-Release Tablets?

- Store Rabeprazole Sodium Delayed-Release Tablets in a dry place at room temperature between 68°F to 77°F (20°C to 25°C).

Keep Rabeprazole Sodium Delayed-Release Tablets and all medicines out of the reach of children.

General Information about Rabeprazole Sodium Delayed-Release Tablets

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use Rabeprazole Sodium Delayed-Release Tablets for a condition for which it was not prescribed. Do not give Rabeprazole Sodium Delayed-Release Tablets to other people, even if they have the same symptoms that you have. It may harm them.

This Medication Guide summarizes the most important information about Rabeprazole Sodium Delayed-Release Tablets. If you would like more information, talk to your doctor. You can also ask your doctor or pharmacist for information about Rabeprazole Sodium Delayed-Release Tablets that is written for healthcare professionals. For more information, go to <http://www.kremersurban.com/> or call 1-866-822-0068.

What are the ingredients in Rabeprazole Sodium Delayed-Release Tablets?

Active Ingredient: rabeprazole sodium

Inactive Ingredients: crospovidone, FD&C Blue #1, glyceryl behenate, hypromellose, lactose monohydrate, methacrylic acid copolymer dispersion, talc and triethyl citrate.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

Distributed by:

Kremers Urban Pharmaceuticals Inc.

Princeton, NJ 08540, USA

Repackaged by:

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Thousand Oaks, CA 91320

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PRINCIPAL DISPLAY PANEL - 20 mg Bottle Label


Rabeprazole Sodium Delayed-Release Tablets

20 mg

Rx Only

PHARMACIST: Dispense the
accompanying Medication Guide
to each patient.

Scan Here 

 NDC 63187-259-30

Packaged By: Proficient Rx LP
Thousand Oaks, CA 91320

RX Only

Rabeprazole Sodium 20mg

#30 DR Tablets

Dispense the accompanying Medication Guide to each patient.
Each Delayed-Release tablet contains: 20mg of
rabeprazole sodium

*Blue enteric-coated round tablets debossed with "KU" on one side and "7"
on the other*

Product ID: PR025930


Dist. By: Lannett Company, Inc. Philadelphia, PA 19154

Store at 25°C (77°F) Keep medication out of the reach of children

Rabeprazole Sodium 20mg
#30 DR Tablets SN# MASTER
Lot #.00000 Exp:00/00/00
NDC 63187-259-30

Rabeprazole Sodium 20mg
#30 DR Tablets SN# MASTER
Lot #.00000 Exp:00/00/00
NDC 63187-259-30

Rabeprazole Sodium 20mg
#30 DR Tablets SN#MASTER
Lot #.00000 Exp:00/00/00
NDC 63187-259-30

 GTIN: 00363187259303
SN# MASTER
Exp. 00/00/00
Lot #.00000

RABEPRAZOLE SODIUM

rabeprazole sodium tablet, delayed release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:63187-259(NDC:62175-302)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
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RABEPRAZOLE SODIUM (UNII: 3L36P16U4R) (RABEPRAZOLE - UNII:32828355LL)	RABEPRAZOLE SODIUM	20 mg
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Product Characteristics

Color	BLUE	Score	no score
Shape	ROUND	Size	7mm
Flavor		Imprint Code	KU;7
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:63187-259-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	01/01/2019	
2	NDC:63187-259-60	60 in 1 BOTTLE; Type 0: Not a Combination Product	01/01/2019	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA090678	11/08/2013	

Labeler - Proficient Rx LP (079196022)

Establishment

Name	Address	ID/FEI	Business Operations
Proficient Rx LP		079196022	REPACK(63187-259) , RELABEL(63187-259)

Revised: 1/2020

Proficient Rx LP