

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use OMEPRAZOLE and SODIUM BICARBONATE capsules safely and effectively. See full prescribing information for OMEPRAZOLE and SODIUM BICARBONATE capsules.

OMEPRAZOLE and SODIUM BICARBONATE capsules, for oral use

Initial U.S. Approval: 2004

RECENT MAJOR CHANGES	
Warnings and Precautions, Acute Interstitial Nephritis (5.3)	12/2014
Warnings and Precautions, Cyanocobalamin (Vitamin B-12) Deficiency (5.4)	12/2014

INDICATIONS AND USAGE

Omeprazole and sodium bicarbonate capsules is a proton pump inhibitor indicated for:

- Short-term treatment of active duodenal ulcer (1.1)
- Short-term treatment of active benign gastric ulcer (1.2)
- Treatment of gastroesophageal reflux disease (GERD) (1.3)
- Maintenance of healing of erosive esophagitis (1.4)

The safety and effectiveness of omeprazole and sodium bicarbonate capsules in pediatric patients (<18 years of age) have not been established. (8.4)

DOSAGE AND ADMINISTRATION

- Short-Term Treatment of Active Duodenal Ulcer: 20 mg once daily for 4 weeks (some patients may require an additional 4 weeks of therapy) (14.1) (2)
- Gastric Ulcer: 40 mg once daily for 4 to 8 weeks (2)
- Gastroesophageal Reflux Disease (GERD) (2)
 - Asymptomatic GERD (with no esophageal erosions): 20 mg once daily for up to 4 weeks
 - Erosive Esophagitis: 20 mg once daily for 4 to 8 weeks
- Maintenance of healing of Erosive Esophagitis: 20 mg once daily* (2)

*studied for 12 months

DOSAGE FORMS AND STRENGTHS

Omeprazole and sodium bicarbonate is available as a capsule in 20 mg and 40 mg strengths (3)

CONTRAINDICATIONS

Known hypersensitivity to any components of the formulation (4)

WARNINGS AND PRECAUTIONS

- Concomitant Gastric Malignancy: Symptomatic response to therapy with omeprazole and sodium bicarbonate capsules does not preclude the presence of gastric malignancy (5.1)
- Atrophic Gastritis: Has been observed in gastric corpus biopsies from patients treated long-term with omeprazole (5.2)
- Acute interstitial nephritis has been observed in patients taking PPIs. (5.3)
- Cyanocobalamin (vitamin B-12) Deficiency: Daily long-term use (e.g., longer than 3 years) may lead to malabsorption or a deficiency of cyanocobalamin. (5.4)
- Buffer Content: contains sodium bicarbonate (5.5)

See full prescribing information for Omeprazole and Sodium Bicarbonate capsules for complete information.

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See full prescribing information for Omeprazole and Sodium Bicarbonate capsules for complete information.

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Duodenal Ulcer

Omeprazole and sodium bicarbonate is indicated for short-term treatment of active duodenal ulcer. Most patients heal within four weeks. Some patients may require an additional four weeks of therapy. [See **Clinical Studies** (14.1)].

1.2 Gastric Ulcer

Omeprazole and sodium bicarbonate is indicated for short-term treatment (4 to 8 weeks) of active benign gastric ulcer. [See **Clinical Studies** (14.2)].

1.3 Treatment of Gastroesophageal Reflux Disease (GERD)

Symptomatic GERD

Omeprazole and sodium bicarbonate is indicated for the treatment of heartburn and other symptoms associated with GERD for up to 4 weeks. [See **Clinical Studies** (14.3)].

Erosive Esophagitis

Omeprazole and sodium bicarbonate is indicated for the short-term treatment (4 to 8 weeks) of erosive esophagitis which has been diagnosed by endoscopy.

The efficacy of omeprazole and sodium bicarbonate used for longer than 8 weeks in these patients has not been established. If a patient does not respond to 8 weeks of treatment, it may be helpful to give up to an additional 4 weeks of treatment. If there is recurrence of erosive esophagitis or GERD symptoms (e.g., heartburn), additional 4 to 8 week courses of omeprazole and sodium bicarbonate may be considered. [See **Clinical Studies** (14.3)].

1.4 Maintenance of Healing of Erosive Esophagitis

Omeprazole and sodium bicarbonate capsules is indicated to maintain healing of erosive esophagitis. Controlled studies do not extend beyond 12 months. [See **Clinical Studies** (14.4)].

2 DOSAGE AND ADMINISTRATION

Omeprazole and sodium bicarbonate is available as a capsule in 20 mg and 40 mg strengths of omeprazole for adult use. Directions for use for each indication are summarized in **Table 1**. All recommended doses throughout the labeling are based upon omeprazole.

Since both the 20 mg and 40 mg capsules contain the same amount of sodium bicarbonate (1100 mg), two capsules of 20 mg are **not** equivalent to one capsule of omeprazole and sodium bicarbonate 40 mg; therefore, two 20 mg capsules of omeprazole and sodium bicarbonate should not be substituted for one capsule of omeprazole and sodium bicarbonate 40 mg.

Omeprazole and sodium bicarbonate should be taken on an empty stomach at least one hour before a meal.

Indication	Recommended Dose	Frequency
Short-Term Treatment of Active Duodenal Ulcer	20 mg	Once daily for 4 weeks**
Benign Gastric Ulcer	40 mg	Once daily for 4-8 weeks **,*
Gastroesophageal Reflux Disease (GERD)		
Symptomatic GERD (with no esophageal erosions)	20 mg	Once daily for up to 4 weeks*
Erosive Esophagitis	20 mg	Once daily for 4-8 weeks*
Maintenance of Healing of Erosive Esophagitis	20 mg	Once daily**

* Most patients heal within 4 weeks. Some patients may require an additional 4 weeks of therapy. [See **CLINICAL STUDIES** (14.1)].

** Controlled studies do not extend beyond 12 months. [See **CLINICAL STUDIES** (14)]

† For additional information, [See **INDICATIONS AND USAGE** (1)]

Special Populations

Hepatic Insufficiency

Consider dose reduction, particularly for maintenance of healing of erosive esophagitis. [See **Clinical Pharmacology** (12.3)]

Administration of Capsules

Omeprazole and Sodium Bicarbonate Capsules should be swallowed intact with water. DO NOT USE OTHER LIQUIDS. DO NOT OPEN CAPSULE AND SPRINKLE CONTENTS INTO FOOD.

3 DOSAGE FORMS AND STRENGTHS

Omeprazole and sodium bicarbonate **20 mg Capsules**: Each capsule consists of a white opaque body printed with par/397 in black ink and light blue opaque cap.

Omeprazole and sodium bicarbonate **40 mg Capsules**: Each capsule consists of a white opaque body printed with par/455 in black ink and blue opaque cap.

4 CONTRAINDICATIONS

Omeprazole and sodium bicarbonate is contraindicated in patients with known hypersensitivity to any components of the formulation. Hypersensitivity reactions may include anaphylaxis, anaphylactic shock, angioedema, bronchospasm, acute interstitial nephritis, and urticaria [See **ADVERSE REACTIONS** (6)].

5 WARNINGS AND PRECAUTIONS

5.1 Concomitant Gastric Malignancy

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

- PPI therapy may be associated with increased risk of *Clostridium difficile* associated diarrhea. (5.6)
- Avoid concomitant use of omeprazole and sodium bicarbonate with clopidogrel (5.7)
- 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. (5.8)
- Hypomagnesemia has been reported rarely with prolonged treatment with PPIs (5.9)
- Avoid concomitant use of omeprazole and sodium bicarbonate with St. John’s Wort or rifampin due to the potential reduction in omeprazole concentrations (5.10, 7.2)
- Interactions with diagnostic investigations for Neuroendocrine Tumors: Increases in intra-gastric pH may result in hypergastrinemia and enterochromaffin-like cell hyperplasia and increased Chromogranin A levels which may interfere with diagnostic investigations for neuroendocrine tumors. (5.11, 12.2)

ADVERSE REACTIONS

Most common adverse reactions (incidence ≥ 2%) are:

Headache, abdominal pain, nausea, diarrhea, vomiting, and flatulence (6)

To report SUSPECTED ADVERSE REACTIONS, contact Par Pharmaceutical at 1-800-828-9393 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- May interact with drugs for which gastric pH can affect bioavailability (e.g.), ketoconazole, ampicillin esters, iron salts, erlotinib, digoxin, and mycophenolate mofetil (7.1)
- Drugs metabolized by cytochrome P450 (e.g., diazepam, warfarin, phenytoin, cyclosporine, disulfiram, benzodiazepines): Omeprazole and sodium bicarbonate can prolong their elimination. Monitor to determine the need for possible dose adjustments when taken with omeprazole and sodium bicarbonate (7.2)
- Patients treated with proton pump inhibitors and warfarin concomitantly may need to be monitored for increases in INR and prothrombin time (7.2)
- Voriconazole: May increase plasma levels of omeprazole (7.2)
- Saquinavir: Omeprazole and sodium bicarbonate increases plasma levels of saquinavir (7.3)
- Omeprazole and sodium bicarbonate may reduce plasma levels of atazanavir and nelfinavir (7.3)
- Clopidogrel: Omeprazole and sodium bicarbonate decreases exposure to the active metabolite of clopidogrel (7.5)
- Tacrolimus: Omeprazole and sodium bicarbonate may increase serum levels of tacrolimus (7.6)
- Methotrexate: Omeprazole and sodium bicarbonate capsules may increase serum level of methotrexate (7.8)

USE IN SPECIFIC POPULATIONS

- Pregnancy: Based upon animal data, may cause fetal harm (8.1)
- The safety and effectiveness of omeprazole and sodium bicarbonate in pediatric patients less than 18 years of age have not been established. (8.4)
- Hepatic Impairment: Consider dose reduction, particularly for maintenance of healing of erosive esophagitis (12.3)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide

Revised: 02/2016

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* Sections or subsections omitted from the full prescribing information are not listed.

In the U.S. clinical trial population of 465 patients, the adverse reactions summarized in **Table 2** were reported to occur in 1% or more of patients on therapy with omeprazole. Numbers in parentheses indicate percentages of the adverse reactions considered by investigators as possibly, probably or definitely related to the drug.

	Omeprazole (n = 465)	Placebo (n = 64)	Ranitidine (n = 195)
Headache	6.9 (2.4)	6.3	7.7 (2.6)
Diarrhea	3.0 (1.9)	3.1 (1.6)	2.1 (0.5)
Abdominal Pain	2.4 (0.4)	3.1	2.1
Nausea	2.2 (0.9)	3.1	4.1 (0.5)
URI	1.9	1.6	2.6
Dizziness	1.5 (0.6)	0.0	2.6 (1.0)
Vomiting	1.5 (0.4)	4.7	1.5 (0.5)
Rash	1.5 (1.1)	0.0	0.0
Constipation	1.1 (0.9)	0.0	0.0
Cough	1.1	0.0	1.5
Asthenia	1.1 (2.2)	1.6 (1.6)	1.5 (1.0)
Back Pain	1.1	0.0	0.5

Table 3 summarizes the adverse reactions that occurred in 1% or more of omeprazole-treated patients from international double-blind, and open-label clinical trials in which 2,631 patients and subjects received omeprazole.

	Omeprazole (n = 2631)	Placebo (n = 120)
Body as a Whole, site unspecified		
Abdominal pain	5.2	3.3
Asthenia	1.3	0.8
Digestive System		
Constipation	1.5	0.8
Diarrhea	3.7	2.5
Flatulence	4.0	5.6
Nausea	3.0	6.7
Vomiting	3.2	10.0
Acid regurgitation	1.9	3.3
Nervous System/Psychiatric		
Headache	2.9	2.5

6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of omeprazole. Because these reactions are voluntarily reported from a population of uncertain size, it is not always possible to reliably estimate their actual frequency or establish a causal relationship to drug exposure.

Body as a Whole: Hypersensitivity reactions, including anaphylaxis, anaphylactic shock, angioedema, bronchospasm, interstitial nephritis, urticaria (see also Skin below), fever, pain, fatigue, malaise.
Cardiovascular: Chest pain or angina, tachycardia, irritable colon, palpitation, elevated blood pressure, and peripheral edema.
Gastrointestinal: Pancreatitis (some fatal), anorexia, irritable colon, flatulence, fecal discoloration, esophageal candidiasis, mucosal atrophy of the tongue, dry mouth, stomatitis and abdominal swelling. During treatment with omeprazole, gastric fundic gland polyps have been noted rarely. These polyps are benign and appear to be reversible when treatment is discontinued.
Gastrointestinal carcinoids have been reported in patients with Zollinger-Ellison syndrome on long-term treatment with omeprazole. This finding is believed to be a manifestation of the underlying condition, which is known to be associated with such tumors.

Hepatic: Mild and, rarely, marked elevations of liver function tests [ALT (SGPT), AST (SGOT), γ-glutamyl transpeptidase, alkaline phosphatase, and bilirubin (jaundice)]. In rare instances, overt liver disease has occurred, including hepatocellular, cholestatic, or mixed hepatitis, liver necrosis (some fatal), hepatic failure (some fatal), and hepatic encephalopathy.

Infections and Infestations: *Clostridium difficile* associated diarrhea.

Metabolism and Nutritional Disorders: Hyponatremia, hypoglycemia, hypomagnesemia and weight gain.

Musculoskeletal: Muscle cramps, myalgia, muscle weakness, joint pain, bone fracture and leg pain.

Nervous System/Psychiatric: Psychic disturbances including depression, agitation, aggression, hallucinations, confusion, insomnia, nervousness, tremors, apathy, somnolence, anxiety, dream abnormalities, vertigo, paresthesia, and hemifacial dyesthesia.

Respiratory: Epistaxis, pharyngeal pain.

Skin: Severe generalized skin reactions including toxic epidermal necrolysis (TEN; some fatal), Stevens-Johnson syndrome, and erythema multiforme (some severe); purpura and/or petechiae (some with rechallenge); skin inflammation, urticaria, angioedema, pruritus, photosensitivity, alopecia, dry skin, and hyperhidrosis.

Special Senses: Tinnitus, taste perversion.

Ocular: Blurred vision, ocular irritation, dry eye syndrome, optic atrophy, anterior ischemic optic neuropathy, optic neuritis and double vision.

Urogenital: Interstitial nephritis (some with positive rechallenge), urinary tract infection, microscopic pyuria, urinary frequency, elevated serum creatinine, proteinuria, hematuria, glycosuria, testicular pain, and gynecomastia.

Hematologic: Rare instances of pancytopenia, agranulocytosis (some fatal), thrombocytopenia, neutropenia, leukopenia, anemia, leucocytosis, and hemolytic anemia have been reported.

The incidence of clinical adverse experiences in patients greater than 65 years of age was similar to that in patients 65 years of age or less.

Additional adverse reactions that could be caused by sodium bicarbonate include metabolic alkalosis, seizures, and tetany.

7 DRUG INTERACTIONS

7.1 Drugs for Which Gastric pH Can Affect Bioavailability

Due to its effects on gastric acid secretion, omeprazole can reduce the absorption of drugs where gastric pH is an important determinant of their bioavailability. Like with other drugs that decrease the intragastric acidity, the absorption of drugs such as ketoconazole, atazanavir, iron salts, erlotinib, and mycophenolate mofetil (MMF) can decrease, while the absorption of drugs such as digoxin can increase during treatment with omeprazole.

Concomitant treatment with omeprazole (20 mg daily) and digoxin in healthy subjects increased the bioavailability of digoxin by 10% (30% in two subjects). Coadministration of digoxin with omeprazole and sodium bicarbonate is expected to increase the systemic exposure of digoxin. Therefore, patients may need to be monitored when digoxin is taken concomitantly with omeprazole and sodium bicarbonate.

Coadministration of omeprazole in healthy subjects and in transplant patients receiving MMF has been reported to reduce the exposure to the active metabolite, mycophenolic acid (MPA), possibly due to a decrease in MMF solubility at an increased gastric pH. The clinical relevance of reduced MPA exposure on organ rejection has not been established in transplant patients receiving omeprazole and sodium bicarbonate and MMF. Use omeprazole with caution in transplant patients receiving MMF. [See **Clinical Pharmacology** (12.3)].

7.2 Drugs Metabolized by Cytochrome P450 (CYP)

Omeprazole can prolong the elimination of diazepam, warfarin and phenytoin, drugs that are metabolized by oxidation in the liver. There have been reports of increased INR and prothrombin time in patients receiving proton pump inhibitors, including omeprazole, and warfarin concomitantly. Increases in INR and prothrombin time may lead to abnormal bleeding and even death. Patients treated with proton pump inhibitors and warfarin may need to be monitored for increases in INR and prothrombin time.

Although in normal subjects no interaction with theophylline or propranolol was found, there have been clinical reports of interaction with other drugs metabolized via the cytochrome P-450 system (e.g., cyclosporine, disulfiram, benzodiazepines). Patients should be monitored to determine if it is necessary to adjust the dosage of these drugs when taken concomitantly with omeprazole and sodium bicarbonate.

Concomitant administration of omeprazole and voriconazole (a combined inhibitor of CYP2C19 and CYP3A4) resulted in more than doubling of the omeprazole exposure. Dose adjustment of omeprazole is not normally required. When voriconazole (400 mg every 12 hours for one day, then 200 mg for 6 days) was given with omeprazole (40 mg once daily for 7 days) the healthy subjects significantly increased the steady-state *C*_{max} and AUC₀₋₂₄ of omeprazole, an average of 2 times (90% CI: 1.8, 2.6) and 4 times (80% CI: 3.3, 4.4) respectively as compared to when omeprazole was given without voriconazole.

Drugs known to induce CYP2C19 or CYP3A4 (such as rifampin) may lead to decreased omeprazole serum levels. In a cross-over study in 12 healthy male subjects, St. John’s Wort (300 mg three times daily for 14 days), an inducer of CYP3A4, decreased the systemic exposure of omeprazole in CYP2C19 poor metabolizers (*C*_{max} and AUC decreased by 37.5% and 37.9%, respectively) and extensive metabolizers (*C*_{max} and AUC decreased by 49.6% and 43.9%, respectively). Avoid concomitant use of St. John’s Wort or rifampin with omeprazole.

7.3 Antiretroviral Agents

Concomitant administration 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.

Omeprazole has been reported to interact with some antiretroviral drugs. The clinical importance and the mechanisms behind these interactions are not always known. Increased gastric pH during omeprazole treatment may change the absorption of the antiretroviral drug. Other possible interaction mechanisms are via CYP2C19. For some antiretroviral drugs, such as atazanavir and nelfinavir, decreased serum levels have been reported when given together with omeprazole. Following multiple doses of nelfinavir (1200 mg, twice daily), and omeprazole (40 mg, daily), AUC₀₋₂₄ was decreased by 36% and 92%, *C*_{max} by 37% and 89% and *t*_{1/2 elimination} by 39% and 75%, respectively for nelfinavir and MB. Following multiple doses of atazanavir (400 mg) and omeprazole (40 mg, daily, 2 hours before atazanavir), AUC was decreased by 94%, *C*_{max} by 96%, and *t*_{1/2} by 95%. Concomitant administration with omeprazole and drugs such as atazanavir and nelfinavir is therefore not recommended.

9.5 Concentration of Saquinavir

For other antiretroviral drugs, such as saquinavir, elevated serum levels have been reported with an increase in AUC by 82%, in *C*_{max} by 75% and in *C*_{min} by 106% following multiple dosing of saquinavir/ritonavir (1000/100 mg) twice daily for 15 days with omeprazole 40 mg daily co-administered days 11 to 15. Dose reduction of saquinavir should be considered from the safety perspective for individual patients. There are also some antiretroviral drugs of which unchanged serum levels have been reported when given with omeprazole.

7.4 Combination Therapy with Clarithromycin

Concomitant administration of clarithromycin with other drugs can lead to serious adverse reactions due to drug interaction [See **Warnings and Precautions** in prescribing information for clarithromycin]. Because of these drug interactions, clarithromycin is contraindicated for coadministration with certain drugs. [See **Contraindications** in prescribing information for clarithromycin].

7.5 Clopidogrel

Omeprazole is an inhibitor of CYP2C19 enzyme. Clopidogrel is metabolized to its active metabolite in part by CYP2C19. Concomitant use of omeprazole 80 mg results in reduced plasma concentrations of the active metabolite of clopidogrel and a reduction in platelet inhibition. Avoid concomitant administration of omeprazole with clopidogrel. When using omeprazole and sodium bicarbonate, consider use of an alternative anti-platelet therapy. [See **Pharmacokinetics** (12.3)].

7.6 Tacrolimus

Concomitant administration of omeprazole and tacrolimus may increase the serum levels of tacrolimus.

7.7 Interactions With Investigations of Neuroendocrine Tumors

Drug-induced decrease in gastric acidity results in enterochromaffin-like cell hyperplasia and increased Chromogranin A levels which may interfere with investigations for neuroendocrine tumors. [See **Clinical Pharmacology** (12)].

7.8 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** (5.12)].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category C

Risk Summary

There are no adequate and well-controlled studies on the use of omeprazole in pregnant women. Available epidemiologic data fail to demonstrate an increased risk of major congenital malformations or other adverse pregnancy outcomes with first trimester omeprazole use. Teratogenicity was not observed in animal reproduction studies with administration of oral esomeprazole magnesium in rats and rabbits with doses about 68 times and 42 times, respectively, an oral human dose of 40 mg (based on a body surface area basis for a 60 kg person). However, changes in bone morphology were observed in offspring of rats dosed through most of pregnancy and lactation at doses equal to or greater than approximately 33.6 times an oral human dose of 40 mg (see *Animal Data*). Because of the observed effect at high doses of esomeprazole magnesium on developing bone in rat studies, omeprazole and sodium bicarbonate should be used during pregnancy only

The course of Barrett's esophagus in 106 patients was evaluated in a U.S. double-blind controlled study of omeprazole 40 mg b.i.d. for 12 months followed by 20 mg b.i.d. for 12 months or ranitidine 300 mg b.i.d. for 24 months. No clinically significant impact on Barrett's mucosa by antisecretory therapy was observed. Although neosquamous epithelium developed during antisecretory therapy, complete elimination of Barrett's mucosa was not achieved. No significant difference was observed between treatment groups in development of dysplasia in Barrett's mucosa and no patient developed esophageal carcinoma during treatment. No significant differences between treatment groups were observed in development of ECL cell hyperplasia, corpus atrophic gastritis, corpus intestinal metaplasia, or colon polyps exceeding 3 mm in diameter.

12.3 Pharmacokinetics

Absorption

In separate *in vivo* bioavailability studies, when omeprazole and sodium bicarbonate oral suspension and capsules are administered on an empty stomach 1 hour prior to a meal, the absorption of omeprazole is rapid, with mean peak plasma levels (5% of omeprazole base) of 1954 ng/mL (33%) and 1526 ng/mL (49%), respectively, and time to peak of approximately 30 minutes (range 10-90 min) after a single-dose or repeated-dose administration. Following single or repeated once daily dosing, peak plasma concentrations of omeprazole from omeprazole and sodium bicarbonate are approximately proportional from 20 to 40 mg doses, but a greater than linear mean AUC (three-fold increase) is observed when doubling the dose to 40 mg. The bioavailability of omeprazole from omeprazole and sodium bicarbonate increases upon repeated administration.

When omeprazole and sodium bicarbonate is administered 1 hour after a meal, the omeprazole AUC is reduced by approximately 24% relative to administration 1 hour prior to a meal.

Distribution

Omeprazole is bound to plasma proteins. Protein binding is approximately 95%.

Metabolism

Following single-dose oral administration of omeprazole, the majority of the dose (about 77%) is eliminated in urine as at least six metabolites. These metabolites have been identified as hydroxyomeprazole and the corresponding carboxylic acid. The remainder of the dose was recoverable in feces. This implies a significant biliary excretion of the metabolites of omeprazole. Three metabolites have been identified in plasma – the sulfide and sulfone derivatives of omeprazole, and hydroxyomeprazole. These metabolites have very little or no antisecretory activity.

Excretion

Following single-dose oral administration of omeprazole, little if any, unchanged drug is excreted in urine. The mean plasma omeprazole half-life in healthy subjects is approximately 1 hour (range 0.4 to 3.2 hours) and the total body clearance is 500-600 mL/min.

Concomitant Use with Clopidogrel

In a crossover clinical study, 72 healthy subjects were administered clopidogrel (300 mg loading dose followed by 75 mg per day) alone and with omeprazole (80 mg at the same time as clopidogrel) for 5 days. The exposure to the active metabolite of clopidogrel was decreased by 46% (Day 1) and 42% (Day 5) when clopidogrel and omeprazole were administered together. Results from another crossover study in healthy subjects showed a similar pharmacokinetic interaction between clopidogrel (300 mg loading dose/75 mg daily maintenance dose) and omeprazole 80 mg daily when coadministered for 30 days. Exposure to the active metabolite of clopidogrel was reduced by 41% to 46% over this time period.

In another study, 72 healthy subjects were given the same doses of clopidogrel and 80 mg omeprazole but the drugs were administered 12 hours apart; the results were similar, indicating that administering clopidogrel and omeprazole at different times does not prevent their interaction.

Concomitant Use with Mycophenolate Mofetil

Administration of omeprazole 20 mg twice daily for 4 days and a single 1000 mg dose of MMF approximately one hour after the last dose of omeprazole to 12 healthy subjects in a cross-over study resulted in a 52% reduction in the C_{max} and 23% reduction in the AUC of MPA.

Special Populations

Geriatric

The elimination rate of omeprazole was somewhat decreased in the elderly, and bioavailability was increased. Omeprazole was 76% bioavailable when a single 40 mg oral dose of omeprazole (buffered solution) was administered to healthy elderly subjects, versus 58% in young subjects on the same dose. Nearly 70% of the dose was recovered in urine as metabolites of omeprazole and no unchanged drug was detected. The plasma clearance averaged 70 mL/min, compared to a value of 300 mL/min in normal subjects. Dose reduction, particularly where maintenance of healing of erosive esophagitis is indicated, for the hepatically impaired should be considered.

Pediatric

The pharmacokinetics of omeprazole and sodium bicarbonate have not been studied in patients < 18 years of age.

Gender

There are no known differences in the absorption or excretion of omeprazole between males and females.

Hepatic Insufficiency

In patients with chronic hepatic disease, the bioavailability of omeprazole from a buffered solution increased to approximately 100% compared to an I.V. dose, reflecting decreased first-pass effect, and the mean plasma half-life of the drug increased to nearly 3 hours compared to the mean half-life of 1 hour in normal subjects. Plasma clearance averaged 70 mL/min, compared to a value of 300 mL/min in normal subjects. Dose reduction, particularly where maintenance of healing of erosive esophagitis is indicated, for the hepatically impaired should be considered.

Renal Insufficiency

In patients with chronic renal impairment, whose creatinine clearance ranged between 10 and 62 mL/min/1.73 m², the disposition of omeprazole from a buffered solution was very similar to that in healthy subjects, although there was a slight increase in bioavailability. Because urinary excretion is a primary route of excretion of omeprazole metabolites, their elimination slows in proportion to the decreased creatinine clearance. No dose reduction is necessary in patients with renal impairment.

Asian Population

In pharmacokinetic studies of single 20 mg omeprazole doses, an increase in AUC of approximately four-fold was noted in Asian subjects compared to Caucasians. Dose adjustment, particularly where maintenance of healing of erosive esophagitis is indicated, for Asian subjects should be considered.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis and Mutagenesis and Impairment of Fertility

In two 24-month carcinogenicity studies in rats, omeprazole at daily doses of 1.7, 3.4, 13.8, 44.0 and 140.8 mg/kg/day (approximately 0.4 to 34.2 times the human dose of 40 mg/day on a body surface area basis) produced gastric ECL cell carcinoids in a dose-related manner in both male and female rats; the incidence of this effect was markedly higher in female rats, which had higher blood levels of omeprazole. Gastric carcinoids seldom occur in the untreated rat. In addition, ECL cell hyperplasia was present in all treated groups of both sexes. In one of these studies, female rats were treated with 13.8 mg omeprazole/kg/day (approximately 3.36 times the human dose of 40 mg/day on a body surface area basis) for one year, then followed for an additional year without the drug. No carcinoids were seen in these rats. An increased incidence of treatment-related ECL cell hyperplasia was observed at the end of one year (94% treated vs 10% controls). By the second year the difference between treated and control rats was much smaller (46% vs 26%) but still showed more hyperplasia in the treated group. Gastric adenocarcinoma was seen in one rat (2%). No similar tumor was seen in male or female rats treated for two years. For this strain of rat no similar tumor has been noted historically, but a finding involving only one tumor is difficult to interpret. In a 52-week toxicity study in Sprague-Dawley rats, brain astrocytomas were found in a small number of males that received omeprazole at dose levels of 0.4, 2, and 16 mg/kg/day (about 0.1 to 3.9 times the human dose of 40 mg/day on a body surface area basis). No astrocytomas were observed in female rats in this study. In a 2-year carcinogenicity study in Sprague-Dawley rats, no astrocytomas were found in males and females at the high dose of 140.8 mg/kg/day (about 34 times the human dose of 40 mg/day on a body surface area basis). A 78-week mouse carcinogenicity study of omeprazole did not show increased tumor occurrence, but the study was not conclusive. A 26-week p53 (+/-) transgenic mouse carcinogenicity study was not positive. Omeprazole was positive for clastogenic effects in an *in vitro* human lymphocyte chromosomal aberration assay, in one of two *in vivo* mouse micronucleus tests, and in an *in vivo* bone marrow cell chromosomal aberration assay. Omeprazole was negative in the *in vitro* Ames Test, an *in vitro* mouse lymphoma cell forward mutation assay and an *in vivo* rat liver DNA damage assay. In 24-month carcinogenicity studies in rats, a dose-related significant increase in gastric carcinoid tumors and ECL cell hyperplasia was observed in both male and female animals [See **WARNINGS AND PRECAUTIONS** (5)]. Carcinoid tumors have also been observed in rats subjected to fundectomy or long-term treatment with other proton pump inhibitors or high doses of H₂-receptor antagonists.

Omeprazole at oral doses up to 138 mg/kg/day (about 33.6 times the human dose of 40 mg/day on a body surface area basis) was found to have no effect on the fertility and general reproductive performance in rats.

13.2 Animal Toxicology and/or Pharmacology

Reproductive Toxicology Studies. Reproduction studies conducted in pregnant rats with omeprazole at doses up to 138 mg/kg/day (about 33.6 times an oral human dose of 40 mg/day on a body surface area) and in pregnant rabbits at doses up to 69 mg/kg/day (about 33.6 times an oral human dose of 40 mg/day on a body surface area basis) did not disclose any evidence for a teratogenic potential of omeprazole.

In rabbits, omeprazole in a dose range of 6.9 to 69 mg/kg/day (about 3.3 to 33.6 times the human dose of 40 mg/day on a body surface area basis) produced dose-related increases in embryo-lethality, fetal resorptions and pregnancy disruptions. In rats, dose-related embryo/fetal toxicity and postnatal developmental toxicity were observed in offspring resulting from parents treated with omeprazole at 13.8 to 138.0 mg/kg/day (about 3.3 to 33.6 times the human dose of 40 mg/day on a body surface area basis).

Juvenile Animal Study

A 28-day toxicity study with a 14-day recovery phase was conducted in juvenile rats with esomeprazole magnesium at doses of 70 to 280 mg/kg/day (about 1.7 to 68 times a daily oral human dose of 40 mg on a body surface area basis). An increase in the number of deaths at the high dose of 280 mg/kg/day was observed when juvenile rats were administered esomeprazole magnesium from postnatal day 7 through postnatal day 35. In addition, doses equal to or greater than 140 mg/kg/day (about 34 times a daily oral human dose of 40 mg on a body surface area basis), produced treatment-related decreases in body weight (approximately 14%) and body weight gain, decreases in femur weight and femur length, and affected overall growth. Comparable findings described above have also been observed in this study with another esomeprazole salt, esomeprazole strontium, at equimolar doses of esomeprazole.

14 CLINICAL STUDIES

14.1 Duodenal Ulcer Disease

Active Duodenal Ulcer – In a multicenter, double-blind, placebo controlled study of 147 patients with endoscopically documented duodenal ulcer, the percentage of patients healed (per protocol) at 2 and 4 weeks was significantly higher with omeprazole 20 mg once a day than with placebo (p ≤ 0.01). (See **Table 6**.)

Table 6: Treatment of Active Duodenal Ulcer % of Patients Healed			
	Omeprazole 20 mg a.m. (n = 99)	Placebo a.m. (n = 48)	
Week 2	41*	13	
Week 4	75*	27	
* (p ≤ 0.01)			

Complete daytime and nighttime pain relief occurred significantly faster (p ≤ 0.01) in patients treated with omeprazole 20 mg than in patients treated with placebo. At the end of the study, significantly more patients who had received omeprazole had complete relief of daytime pain (p ≤ 0.05) and nighttime pain (p ≤ 0.01).

In a multicenter, double-blind study of 293 patients with endoscopically documented duodenal ulcer, the percentage of patients healed (per protocol) at 4 weeks was significantly higher with omeprazole 20 mg once a day than with ranitidine 150 mg b.i.d. (p < 0.01). (See **Table 7**.)

Table 7: Treatment of Active Duodenal Ulcer % of Patients Healed			
	Omeprazole 20 mg a.m. (n = 145)	Ranitidine 150 mg b.i.d. (n = 148)	
Week 2	42	34	
Week 4	82*	63	
* (p < 0.01)			

Healing occurred significantly faster in patients treated with omeprazole than in those treated with ranitidine 150 mg b.i.d. (p < 0.01). In a foreign multinational randomized, double-blind study of 105 patients with endoscopically documented duodenal ulcer, 40 mg and 20 mg of omeprazole were compared to 150 mg b.i.d. of ranitidine at 2, 4 and 8 weeks. At 2 and 4 weeks both doses of omeprazole were statistically superior (per protocol) to ranitidine, but 40 mg was not superior to 20 mg of omeprazole, and at 8 weeks there was no significant difference between any of the active drugs. (See **Table 8**.)

Table 8: Treatment of Active Duodenal Ulcer % of Patients Healed			
	Omeprazole		Ranitidine
	40 mg (n = 36)	20 mg (n = 34)	150 mg b.i.d. (n = 35)
Week 2	83*	83*	53
Week 4	100*	97*	82
Week 8	100	100	94
*(p≤ 0.01)			

14.2 Gastric Ulcer

In a U.S. multicenter, double-blind study of omeprazole 40 mg once a day, 20 mg once a day, and placebo in 520 patients with endoscopically diagnosed gastric ulcer, the following results were obtained. (See **Table 9**.)

Table 9: Treatment of Gastric Ulcer % of Patients Healed (All Patients Treated)			
	Omeprazole 40 mg q.d. (n = 214)	Omeprazole 20 mg q.d. (n = 202)	Placebo (n = 104)
Week 4	55.6**	47.5**	30.8
Week 8	82.7***	74.8**	48.1

** (p < 0.01) Omeprazole 40 mg or 20 mg versus placebo

* (p < 0.05) Omeprazole 40 mg versus 20 mg

For the stratified groups of patients with ulcer size less than or equal to 1 cm, no difference in healing rates between 40 mg and 20 mg was detected at either 4 or 8 weeks. For patients with ulcer size greater than 1 cm, 40 mg was significantly more effective than 20 mg at 8 weeks.

In a foreign, multinational, double-blind study of 602 patients with endoscopically diagnosed gastric ulcer, omeprazole 40 mg once a day, 20 mg once a day, and ranitidine 150 mg twice a day were evaluated. (See **Table 10**.)

Table 10: Treatment of Gastric Ulcer % of Patients Treated)			
	Omeprazole 40 mg q.d. (n = 187)	Omeprazole 20 mg q.d. (n = 200)	Ranitidine 150 mg b.i.d. (n = 199)
Week 4	78.1***	63.5	56.3
Week 8	91.4***	81.5	78.4

** (p < 0.01) Omeprazole 40 mg versus ranitidine

** (p < 0.01) Omeprazole 40 mg versus 20 mg

14.3 Gastroesophageal Reflux Disease (GERD)

Symptomatic GERD-A placebo controlled study was conducted in Scandinavia to compare the efficacy of omeprazole 20 mg or 10 mg once daily for up to 4 weeks in the treatment of heartburn and other symptoms in GERD patients without erosive esophagitis. Results are shown in **Table 11**.

Table 11: % Successful Symptomatic Outcome ^a			
	Omeprazole 20 mg a.m.	Omeprazole 10 mg a.m.	Placebo a.m.
All patients	46*†	31†	13
	(n = 205)	(n = 199)	(n = 105)
Patients with confirmed GERD	56*†	36†	14
	(n = 115)	(n = 109)	(n = 59)

^a Defined as complete resolution of heartburn

† (p < 0.005) versus 10 mg

‡ (p < 0.005) versus placebo

Erosive Esophagitis -In a U.S. multicenter double-blind placebo controlled study of 40 mg or 20 mg of omeprazole delayed-release capsules in patients with symptoms of GERD and endoscopically diagnosed erosive esophagitis of grade 2 or above, the percentage healing rates (per protocol) were as shown in **Table 12**.

Table 12: % Patients Healed			
	Omeprazole 40 mg (n = 87)	Omeprazole 20 mg (n = 83)	Placebo (n = 43)
Week 4	45*	39*	7
Week 8	75*	74*	14

* (p < 0.01) Omeprazole versus placebo.

In this study, the 40-mg dose was not superior to the 20-mg dose of omeprazole in the percentage healing rate. Other controlled clinical trials have also shown that omeprazole is effective in severe GERD. In comparisons with histamine H₂-receptor antagonists in patients with erosive esophagitis, grade 2 or above, omeprazole in a dose of 20 mg was significantly more effective than the active controls. Complete daytime and nighttime heartburn relief occurred significantly faster (p< 0.01) in patients treated with omeprazole than in those taking placebo or histamine H₂-receptor antagonists. In this and five other controlled GERD studies, significantly more patients taking 20 mg omeprazole (84%) reported complete relief of GERD symptoms than patients receiving placebo (12%).

14.4 Long Term Maintenance Treatment of Erosive Esophagitis

In a U.S. double-blind, randomized, multicenter, placebo controlled study, two dose regimens of omeprazole were studied in patients with endoscopically confirmed healed esophagitis. Results to determine maintenance of healing of erosive esophagitis are shown in **Table 13**.

Table 13: Life Table Analysis			
	Omeprazole 20 mg q.d. (n = 138)	Omeprazole 20 mg 3 days per week (n = 137)	Placebo (n = 131)
Percent in endoscopic remission at 6 months	70*	34	11

* (p < 0.01) Omeprazole 20 mg once daily versus Omeprazole 20 mg 3 consecutive days per week or placebo.

In an international multicenter double-blind study, omeprazole 20 mg daily and 10 mg daily were compared to ranitidine 150 mg twice daily in patients with endoscopically confirmed healed esophagitis. **Table 14** provides the results of this study for maintenance of healing of erosive esophagitis.

Table 14: Life Table Analysis			
	Omeprazole 20 mg q.d. (n = 131)	Omeprazole 10 mg q.d. (n = 133)	Ranitidine 150 mg b.i.d. (n = 128)
Percent in endoscopic remission at 12 months	77*	58†	46

* (p = 0.01) Omeprazole 20 mg once daily versus Omeprazole 10 mg once daily or Ranitidine

† (p = 0.03) Omeprazole 10 mg once daily versus Ranitidine

In patients who initially had grades 3 or 4 erosive esophagitis, for maintenance after healing 20 mg daily of omeprazole was effective, while 10 mg did not demonstrate effectiveness.

15 REFERENCES

- Friedman JM and Polifka JE. Omeprazole. In: Teratogenic Effects of Drugs. A Resource for Clinicians (TERIS). 2nd ed. Baltimore, MD: The Johns Hopkins University Press; 2000. 1-516.
- Kallen BAJ. Use of omeprazole during pregnancy – no hazard demonstrated in 955 infants exposed during pregnancy. *Eur Obstet Gynecol Reprod Biol* 2001; 96(1):63-8.
- Ruigómez A, Rodríguez LUG, Cattaruzzi C, et al. Use of cimetidine, omeprazole, and ranitidine in pregnant women and pregnancy outcomes. *Am J Epidemiol* 1999; 150:476-81.
- Lalkin A, Loebstein, Addis A, et al. Use of omeprazole during pregnancy: a multicenter prospective controlled study. *Am J Obstet Gynecol* 1998; 179:727-30.

16 HOW SUPPLIED/STORAGE AND HANDLING

Omeprazole and sodium bicarbonate is available as hard gelatin capsule containing 20 mg of omeprazole and 1100 mg of sodium bicarbonate. The capsule consists of a white opaque body printed with par337 in black ink and light blue opaque cap.

NDC 49884-397-11 Bottles of 30 capsules

Omeprazole and sodium bicarbonate is available as hard gelatin capsule containing 40 mg of omeprazole and 1100 mg of sodium bicarbonate. The capsule consists of a white opaque body printed with par1455 in black ink and blue opaque cap. NDC 49884-455-11 Bottles of 30 capsules

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

Keep this medication out of the hands of children. Keep container tightly closed. Protect from light and moisture.

17 PATIENT COUNSELING INFORMATION

See FDA-Approved Medication Guide

Instruct patients that omeprazole and sodium bicarbonate should be taken on an empty stomach at least one hour prior to a meal. [See **DOSAGE AND ADMINISTRATION** (2)]

Instruct patients in Directions for Use as follows:

Capsules: Swallow intact capsule with water. DO NOT USE OTHER LIQUIDS. DO NOT OPEN CAPSULE AND SPRINKLE CONTENTS INTO FOOD.

Omeprazole and sodium bicarbonate is available either as 40 mg or 20 mg capsules with 1100 mg sodium bicarbonate. Patients should be instructed not to substitute omeprazole and sodium capsules for other omeprazole and sodium bicarbonate dosage forms because different dosage forms contain different amounts of sodium bicarbonate. [See **DOSAGE AND ADMINISTRATION** (2)] Patients should be advised that since both the 20 mg and 40 mg **capsules** contain the same amount of sodium bicarbonate (1100 mg), two capsules of 20 mg are **not** equivalent to one capsule of omeprazole and sodium 40 mg; therefore, two 20 mg capsules of omeprazole and sodium should not be substituted for one capsule of omeprazole and sodium 40 mg. [See **DOSAGE AND ADMINISTRATION** (2)]

Patients should be advised that this drug is not approved for use in patients less than 18 years of age. [See **Pediatric Use** (8.4)] Pregnant women should be advised that the most harmful effect of omeprazole and sodium bicarbonate on the fetus can not be ruled out and that the drug should be used with caution during pregnancy. [See **Pregnancy** (8.1)]

Patients should be advised to use this drug with caution if they are regularly taking calcium supplements. [See **Warnings and Precautions** (5.3)]

Advise patients to immediately report and seek care for diarrhea that does not improve. This may be a sign of *Clostridium difficile* associated with diarrhea. [See **Warnings and Precautions** (5.6)].

Advise patients to immediately report and seek care for any cardiovascular or neurological symptoms including palpitations, dizziness, seizures and tetany as these may be signs of hypomagnesemia. [See **Warnings and Precautions** (5.9)].

Medication Guide

Omeprazole and Sodium Bicarbonate Capsules oh-ME-pray-zol/SO-dee-um by-KAR-boe-nate

Read this Medication Guide before you start taking omeprazole and sodium bicarbonate capsules and each time you get a refill. There may be new information. This information 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 Omeprazole and Sodium Bicarbonate Capsules?

Omeprazole and sodium bicarbonate capsules may help with your acid-related symptoms, but you could still have serious stomach problems. Talk with your doctor.

Omeprazole and sodium bicarbonate capsules can cause serious side effects, including:

• **Omeprazole and sodium bicarbonate capsules contains sodium**

bicarbonate. Tell your doctor if you are on a sodium restricted diet or if you have Bartter's Syndrome (a rare kidney disorder).

Tell your doctor right away if you have confusion, shaking hands, dizziness, muscle twitching, nausea, vomiting, and numbness or tingling in the face, arms, or legs.

• **Diarrhea.** Omeprazole and sodium bicarbonate capsules 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 (a year or longer) may have an increased risk of fractures of the hip, wrist or spine. You should take omeprazole and sodium bicarbonate capsules 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 omeprazole and sodium bicarbonate capsules.

Omeprazole and sodium bicarbonate capsules can have other serious side effects. See **“What are the possible side effects of omeprazole and sodium bicarbonate capsules?”**

What are Omeprazole and Sodium Bicarbonate Capsules?

Omeprazole and sodium bicarbonate capsules is a prescription medicine called a proton pump inhibitor (PPI). Omeprazole and sodium bicarbonate capsules reduces the amount of acid in your stomach.

Omeprazole and sodium bicarbonate capsules are used in adults:

- for 4 weeks to heal ulcers in the first part of the small bowel (duodenal ulcers). Your doctor may prescribe another 4 weeks of omeprazole and sodium bicarbonate capsules.
- for up to 8 weeks for healing stomach ulcers
- for up to 4 weeks to treat heartburn and other symptoms that happen with gastroesophageal reflux disease (GERD).

GERD happens when acid from the 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 8 weeks to heal acid-related damage to the lining of the esophagus (called erosive esophagitis or EE).

• to maintain healing of the esophagus. It is not known if omeprazole and sodium bicarbonate capsules is safe and effective if used longer than 12 months (1 year).

It is not known if omeprazole and sodium bicarbonate are safe and effective in children less than 18 years of age.

Who should not take Omeprazole and Sodium Bicarbonate Capsules?

Do not take omeprazole and sodium bicarbonate capsules if you:

- are allergic to omeprazole or any of the other ingredients in omeprazole and sodium bicarbonate capsules. See the end of this Medication Guide for a complete list of ingredients in omeprazole and sodium bicarbonate capsules.
- are allergic to any other proton pump inhibitor (PPI) medicine.

What