A-S Medication Solutions

HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use ESOMEPRAZOLE MAGNESIUM DELAYED-RELEASE CAPSULES safely and effectively. See full prescribing information for ESOMERRAZOLE MAGNESIUM DELAYED-RELEASE CAPSULES.

ESOMEPRAZOLE MAGNESIUM Delayed-Release Capsules, for oral use

Initial U.S. Approval: 1989 (omeprazole) RECENT MAJOR CHANGES Warnings and Precautions, Acute Tubulointerstitial Nephritis (5.2) 11/2020 INDCATIONS AND USAGE Esomeprazole Magnesium Delayed-Release Capsules is a proton pump inhibitor indicated for the following: Treatment of gastroscophageal reflux disease (GERD) (1.1) Risk reduction of NSAID-associated gastric ulcer, (1.2) H. pylori eradication to reduce the risk of duodenal ulcer recurrence. (1.3) Pathological hypersecretory conditions, including Zollinger-Ellison syndrome. (1.4)

...... DOSAGE AND ADMINISTRATION

Indication	Dose	Frequency		
Gastroesophageal Reflu	ıx Disease (GERD)			
Adults	20 mg or 40 mg	Once daily for 4 to 8 weeks		
12 to 17 years	20 mg or 40 mg	Once daily for up to 8 weeks		
1 to 11 years	10 mg or 20 mg	Once daily for up to 8 weeks		
Risk Reduction of NSAID-Associated Gastric Ulcer				
	20 mg or 40 mg	Once daily for up to 6 months		
H. pylori Eradication (Tr	iple Therapy):			
Esomeprazole magnesium	40 mg	Once daily for 10 days		
delayed-release capsules				
Amoxicillin	1,000 mg	Twice daily for 10 days		
Clarithromycin	500 mg	Twice daily for 10 Days		
Pathological Hypersecr	etory Conditions			
	40 mg	Twice daily		

See full prescribing information for administration options. (2) Patients with severe liver impairment-do not exceed dose of 20 mg. (2)

DOSAGE FORMS AND STRENGTHS
 Esomeprazole Magnesium Delayed-Release Capsules: 20 mg and 40 mg. (3)

occurred). (<u>4</u>)

- uerayeur-receder capsures. (139, 7-3) Interactions with Diagnostic Investigations for Neuroendocrine Tumors: Increased chromogranin A (CgA) levels may interfere with diagnostic investigations for neuroendocrine tumors, temporarily stop esomeprazole magnesium delayed-release capsules at least 14 days before assessing CgA levels. (5-10, 12.2)
- ().10, 12.2) <u>Interaction with Methotrexate</u>: Concomitant use with PPIs may elevate and/or prolong serum concentrations of methotrexate and/or its metabolite, possibly leading to toxicity. With high dose methotrexate administration, consider temporary withdrawal of esomeprazole magnesium delayed-release capsules. ().11, 7.7)
- Fundic Gland Polyps: Risk increases with long-term use, especially beyond one year. Use the shortest duration of therapy. (5.12)

- Pediatric (1 to 17 years) (incidence ≥2%) are headache, diarrhea, abdominal pain, nausea, and somnolence.

- Somnolence.
 To report SUSPECTED ADVERSE REACTIONS, contact Torrent Pharma Inc. at 1-800-912-9561
 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.
 DRUG INTERACTIONS
 May affect plasma levels of antiretroviral drugs use with atzanavir and neffinavir is not
 recommended; if saquinavir is used with esomepracely magnesium delayed-release capsules, monitor
 for toxicity and consider saquinavir dose reduction. (7.1)
 May interfere with drugs for which gastric pl affects bioavailability (e.g., ketoconazole, iron salts,
 eriotinib, digoxin and mycophenolate mofetil). Patients treated with esomeprazole magnesium delayed-release
 Combined inhibitor of CMP2CI9 and 3A4 may raise esomeprazole levels. (7.3)
 Clopidogrel: Esomeprazole magnesium delayed-release capsules exposure to the active
 metabolite of clopidogrel. (7.3)
 May intercase systemic exposure of cliostazol and an active metabolite. Consider dose reduction. (
 7.3)
 Tacrolimus: esomeprazole magnesium delayed-release capsules down in the section of the sec

- Tacrolimus: esomeprazole magnesium delayed-release capsules may increase serum levels of tacrolimus. (7.5)
- Methotrexate: esomeprazole magnesium delayed-release capsules may increase serum levels of methotrexate. (7.7)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide. Revised: 6/2021

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Treatment of Gastroesophageal Reflux Disease (GERD)

Healing of Erosive Esophagitis

Esomeprazole magnesium delayed-release capsules are indicated for the short-term treatment (4 to 8 weeks) in the healing and symptomatic resolution of diagnostically confirmed erosive esophagitis. For those patients who have not healed after 4 to 8 weeks of treatment, an additional 4 to 8 week course of Esomeprazole magnesium delayed-release capsules may be considered.

Maintenance of Healing of Erosive Esophagitis

Esomeprazole magnesium delayed-release capsules are indicated to maintain symptom resolution and healing of erosive esophagitis. Controlled studies do not extend beyond 6 months.

Symptomatic Gastroesophageal Reflux Disease

Esomeprazole magnesium delayed-release capsules are indicated for short-term treatment (4 to 8 weeks) of heartburn and other symptoms associated with GERD in adults.

1.2 Risk Reduction of NSAID-Associated Gastric Ulcer

Esomeprazole magnesium delayed-release capsules are indicated for the reduction in the occurrence of gastric ulcers associated with continuous NSAID therapy in patients at risk for developing gastric ulcers. Patients are considered to be at risk due to their age (≥ 60) and/or documented history of gastric ulcers. Controlled studies do not extend beyond 6 months.

1.3 H. pylori Eradication to Reduce the Risk of Duodenal Ulcer Recurrence

Triple Therapy (Esomeprazole magnesium delayed-release capsules plus amoxicillin and In the day (Esometrize) acute magnesium delayed release capsules in combination and clarithromycin): Esometrize acute magnesium delayed release capsules in combination with amoxicillin and clarithromycin, are indicated for the treatment of patients with *H. pylori* infection and duodenal ulcer disease (active or history of 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 Dosage and Administration (2) and <u>Clinical Studies (14)</u>

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 <u>Clinical Pharmacology (12.4)</u> and the prescribing information for clarithromycin].

1.4 Pathological Hypersecretory Conditions Including Zollinger-Ellison Syndrome

Esomeprazole magnesium delayed-release capsules are indicated for the long-term treatment of pathological hypersecretory conditions, including Zollinger-Ellison Syndrome.

2 DOSAGE AND ADMINISTRATION

Esomeprazole magnesium delayed-release capsules are supplied as delayed-release capsules for oral administration. The recommended dosages are outlined in the Table 1. Esomeprazole magnesium delayed-release capsules should be taken at least one hour before meals

The duration of proton pump inhibitor administration should be based on available safety and efficacy data specific to the defined indication and dosing frequency, as described in the prescribing information, and individual patient medical needs. Proton pump inhibitor treatment should only be initiated and continued if the benefits outweigh the risks of treatment

Table 1:Recommended Dosage Schedule for Esomeprazole Magnesium Delayed-Release Capsules

Indication	Dose	Frequency					
Gastroesophageal Reflux Disease (GERD)							
Healing of Erosive Esophagitis	20 mg or 40 mg	Once Daily for 4 to 8 Weeks ¹					
Maintenance of Healing of Erosive Esophagitis	20 mg	Once Daily ²					
Symptomatic Gastroesophageal Reflux Disease	20 mg	Once Daily for 4 Weeks ³					
Pediatric GERD							
12 to 17 Year Olds Healing of Erosive Esophagitis Symptomatic GERD	20 mg or 40 mg 20 mg	Once Daily for 4 to 8 Weeks Once Daily for 4 Weeks					
1 to 11 Year Olds ⁴	10 mg	Once Daily for up to 8					

GERD		
Healing of Erosive Esophagitis		
weight < 20 kg	10 mg	Once Daily for 8 Weeks
weight ≥ 20 kg	10 mg or 20 mg	Once Daily for 8 Weeks
Risk Reduction of NSAID-Associate Gastric Ulcer	ed 20 mg or 40 mg	Once Daily for up to 6 months ²
H. pylori Eradication to Reduce the	e Risk of Duod	enal Ulcer Recurrence
Triple Therapy:		
Esomeprazole Magnesium Delayed- Release Capsules	40 mg	Once Daily for 10 Days
Amoxicillin	1,000 mg	Twice Daily for 10 Days
Clarithromycin	500 mg	Twice Daily for 10 Days
Pathological Hypersecretory	40 mg ⁻⁶	Twice Daily ⁷
Conditions Including Zollinger-Ellis	on	

Weeks

Syndrome ¹[See <u>Clinical Studies (14.1)</u>] The majority of patients are healed within 4 to 8 weeks. For patients who do not heal after 4 to 8 weeks, an additional 4 to 8 weeks of treatment may be considered.

Controlled studies did not extend beyond six months.

³ If symptoms do not resolve completely after 4 weeks, an additional 4 weeks of treatment may be considered.

Doses over 1 mg/kg/day have not been studied.

Short-term Treatment of Symptomatic

6 The dosage of esomeprazole magnesium delayed-release capsules in patients with pathological hypersecretory conditions varies with the individual patient. Dosage regimens should be adjusted to individual patient needs.

^{7.} Doses up to 240 mg daily have been administered [see <u>Drug Interactions (7)].</u>

Please refer to amoxicillin and clarithromycin prescribing information for

Contraindications, Warnings, and dosing in elderly and renally-impaired patients.

Specific Populations

Hepatic Insufficiency

In patients with mild to moderate liver impairment (Child-Pugh Classes A and B), no

dosage adjustment is necessary. For patients with severe liver impairment (Child-Pugh Class C), a dose of 20 mg of esomeprazole magnesium delayed-release capsules should not be exceeded [see <u>Clinical Pharmacology (12.3)</u>].

Directions for use specific to the route and available methods of administration for each of these dosage forms are presented in Table 2.

Table 2: Administration Options

	Administration Options(See text following table for additional instructions.)	
Dosage Form	Route	Options
Delayed-	Oral	Capsule can be swallowed whole.
Release Capsules		-or-
		Capsule can be opened and mixed with applesauce.
Delayed-	Nasogastric Tube	Capsule can be opened and the intact granules emptied into a syringe and delivered through the nasogastric tube.
Release Capsules		

Esomeprazole Magnesium Delayed-Release Capsules

Esomeprazole magnesium delayed-release capsules should be swallowed whole.

Alternatively, for patients who have difficulty swallowing capsules, one tablespoon of applesauce can be added to an empty bowl and the esomeprazole magnesium delayed-release capsules can be opened, and the granules inside the capsule carefully emptied onto the applesauce. The granules should be mixed with the applesauce and then swallowed immediately: do not store for future use. The applesauce used should not be hot and should be soft enough to be swallowed without chewing. The granules should not be chewed or crushed. If the granules/applesauce mixture is not used in its entirety, the remaining mixture should be discarded immediately.

For patients who have a nasogastric tube in place, esomeprazole magnesium delayed release capsules can be opened and the intact granules emptied into a 60 mL catheter tipped syringe and mixed with 50 mL of water. It is important to only use a catheter tipped syringe when administering esomeprazole magnesium delayed-release capsules through a nasogastric tube. Replace the plunger and shake the syringe vigorously for 15 seconds. Hold the syringe with the tip up and check for granules remaining in the tip. Attach the syringe to a nasogastric tube and deliver the contents of the syringe through the nasogastric tube into the stomach. After administering the granules, the nasogastric tube should be flushed with additional water. Do not administer the granules if they have dissolved or disintegrated.

3 DOSAGE FORMS AND STRENGTHS

Esomeprazole Magnesium Delayed-Release Capsules, USP 20 mg - Size '4' hard gelatin capsule having yellow cap and pink body imprinted as '20 mg' on the body with white ink and '1154' on the cap with black ink, containing off white to cream colored granules.

Esomeprazole Magnesium Delayed-Release Capsules, USP 40 mg - Size '2' hard gelatin capsule having pink cap and body, imprinted as '40 mg' on the body and '1155' on the cap with white ink, containing off white to cream colored granules.

4 CONTRAINDICATIONS

Esomeprazole magnesium delayed-release capsules are contraindicated in patients with known hypersensitivity to substituted benzimidazoles or to any component of the formulation. Hypersensitivity reactions may include anaphylaxis, anaphylactic shock, angioedema, bronchospasm, acute interstitial nephritis, and urticaria *[see Warnings and* Precautions (5.2) , Adverse Reactions (6)].

For information about contraindications of antibacterial agents (clarithromycin and amoxicillin) indicated in combination with esomeprazole magnesium delayed-release capsules, refer to the CONTRAINDICATIONS section of their package inserts.

5 WARNINGS AND PRECAUTIONS

5.1 Presence of Gastric Malignancy

In adults, symptomatic response to therapy with Esomeprazole magnesium delayedrelease capsules does not preclude the presence of gastric malignancy. Consider additional follow-up and diagnostic testing in adult patients who have a suboptimal response or an early symptomatic relapse after completing treatment with a PPI. In older patients, also consider an endoscopy.

5.2 Acute Tubulointerstitial Nephritis

Acute tubulointerstitial nephritis (TIN) has been observed in patients taking PPIs and may occur at any point during PPI therapy. Patients may present with varying signs and symptoms from symptomatic hypersensitivity reactions to nonspecific symptoms of decreased renal function (e.g., malaise, nausea, anorexia). In reported case series, some patients were diagnosed on biopsy and in the absence of extra-renal manifestations (e.g., fever, rash or arthralgia). Discontinue Esomeprazole magnesium

delayed-release capsules and evaluate patients with suspected acute TINif acute interstitial nephritis develops [see <u>Contraindications (4)</u>].

5.3 Clostridium difficile-Associated diarrhea

Published observational studies suggest that PPI therapy like esomeprazole magnesium delayed-release capsules may be associated with an increased risk of *C lostridium difficile*-associated diarrhea, especially in hospitalized patients. This diagnosis should be considered for diarrhea that does not improve [see <u>Adverse Reactions (6.2)</u>].

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 esomeprazole magnesium delayedrelease capsules, refer to Warnings and Precautions section of the corresponding prescribing information.

5.4 Bone Fracture

Several published observational studies suggest that proton pump inhibitor (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 (5.2).

5.5 Cutaneous and Systemic Lupus Erythematosus

Cutaneous lupus erythematosus (CLE) and systemic lupus erythematosus (SLE) have been reported in patients taking PPIs, including esomeprazole. These events have occurred as both new onset and an exacerbation of existing autoimmune disease. The majority of PPI-induced lupus erythematosus cases were CLE.

The most common form of CLE reported in patients treated with PPIs was subacute CLE (SCLE) and occurred within weeks to years after continuous drug therapy in patients ranging from infants to the elderly. Generally, histological findings were observed without organ involvement.

Systemic lupus erythematosus (SLE) is less commonly reported than CLE in patients receiving PPIs. PPI associated SLE is usually milder than non-drug induced SLE. Onset of SLE typically occurred within days to years after initiating treatment primarily in patients ranging from young adults to the elderly. The majority of patients presented with rash; however, arthralgia and cytopenia were also reported.

Avoid administration of PPIs for longer than medically indicated. If signs or symptoms consistent with CLE or SLE are noted in patients receiving esomeprazole magnesium delayed-release capsules, discontinue the drug and refer the patient to the appropriate specialist for evaluation. Most patients improve with discontinuation of the PPI alone in 4 to 12 weeks. Serological testing (e.g. ANA) may be positive and elevated serological test results may take longer to resolve than clinical manifestations.

5.6 Interaction with Clopidogrel

Avoid concomitant use of esomeprazole magnesium delayed-release capsules with clopidogrel. Clopidogrel is a prodrug. Inhibition of platelet aggregation by clopidogrel is entirely due to an active metabolite. The metabolism of clopidogrel to its active metabolite can be impaired by use with concomitant medications, such as esomeprazole, that inhibit CYP2C19 activity. Concomitant use of clopidogrel with 40 mg esomeprazole reduces the pharmacological activity of clopidogrel. When using esomeprazole magnesium delayed-release capsules consider alternative anti-platelet therapy [see <u>Drug</u> Interactions (7.3) and <u>Clinical Pharmacology (12.3)</u>].

5.7 Cyanocobalamin (Vitamin B-12) Deficiency

Daily treatment with any acid-suppressing medications over a long period of time (e.g., longer than 3 years) may lead to malabsorption of cyanocobalamin (Vtamin B-12) caused by hypo- or achiorhydria. Rare reports of cyanocobalamin deficiency occurring with acid-suppressing therapy have been reported in the literature. This diagnosis should be considered if clinical symptoms consistent with cyanocobalamin deficiency are observed.

5.8 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), health care professionals may consider monitoring magnesium levels prior to initiation of PPI treatment and periodically [see <u>Adverse Reactions (6.2)</u>].

5.9 Interaction with St. John's Wort or Rifampin

Drugs which induce CYP2C19 or CYP3A4 (such as St. John's Wort or rifampin) can substantially decrease esomeprazole concentrations [*see Drug Interactions (7.3)*]. Avoid concomitant use of esomeprazole magnesium delayed-release capsules with St. John's Wort or rifampin.

5.10 Interactions with Diagnostic Investigations for Neuroendocrine Tumors

Serum chromogranin A (CgA) levels increase secondary to drug-induced decreases in gastric acidity. The increased CgA level may cause false positive results in diagnostic investigations for neuroendocrine tumors. Healthcare providers should temporarily stop esomeprazole treatment at least 14 days before assessing CgA levels and consider repeating the test if initial CgA levels are high. If serial tests are performed (e.g., for monitoring), the same commercial laboratory should be used for testing, as reference ranges between tests may vary [see <u>Clinical Pharmacology (12.2)</u>].

5.11 Interaction 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 <u>Drug Interactions (7.7)</u>].

5.12 Fundic Gland Polyps

PPI use is associated with an increased risk of fundic gland polyps that increases with long-term use, especially beyond one year. Most PPI users who developed fundic gland polyps were asymptomatic and fundic gland polyps were identified incidentally on endoscopy. Use the shortest duration of PPI therapy appropriate to the condition being treated.

6 ADVERSE REACTIONS

The following serious adverse reactions are described below and elsewhere in labeling:

- Acute Tubulointerstitial Nephritis [see <u>Warnings and Precautions (5.2)]</u>
- Clostridium difficile -Associated Diarrhea [see <u>Warnings and Precautions (5.3)</u>]

- Bone Fracture [see <u>Warnings and Precautions (5.4)</u>]
- Cutaneous and Systemic Lupus Erythematosus [see <u>Warnings and Precautions (5.5)</u>
- Cyanocobalamin (Vitamin B-12) Deficiency [see Warnings and Precautions (5.7)]
- Hypomagnesemia [see <u>Warnings and Precautions (5.8)</u>]
 Fundic Gland Polyps [see <u>Warnings and Precautions (5.12)</u>]
- Tunuc Giana Tolyps [see <u>warnings and Trecautions</u>

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely 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.

Adults

The safety of esomeprazole magnesium delayed-release capsules was evaluated in over 15,000 patients (aged 18 to 84 years) in clinical trials worldwide including over 8,500 patients in the United States and over 6,500 patients in Europe and Canada. Over 2,900 patients were treated in long-term studies for up to 6 to 12 months. In general, esomeprazole magnesium delayed-release capsules was well tolerated in both short and long-term clinical trials.

The safety in the treatment of healing of erosive esophagitis was assessed in four randomized comparative clinical trials, which included 1,240 patients on esomeprazole magnesium delayed-release capsules 20 mg, 2,434 patients on esomeprazole magnesium delayed-release capsules 40 mg, and 3,008 patients on omeprazole 20 mg daily. The most frequently occurring adverse reactions (\geq 1%) in all three groups were headache (5.5, 5, and 3.8, respectively) and diarrhea (no difference among the three groups). Nausea, flatulence, abdominal pain, constipation, and dry mouth occurred at similar rates among patients taking esomeprazole magnesium delayed-release capsules of the safety of the s

Additional adverse reactions that were reported as possibly or probably related to esomeprazole magnesium delayed-release capsules with an incidence <1% are listed below by body system:

Body as a Whole: abdomen enlarged, allergic reaction, asthenia, back pain, chest pain, substernal chest pain, facial edema, peripheral edema, hot flushes, fatigue, fever, flu-like disorder, generalized edema, leg edema, malaise, pain, rigors;

Cardiovascular: flushing, hypertension, tachycardia;

Endocrine: goiter;

Gastrointestinal: bowel irregularity, constipation aggravated, dyspepsia, dysphagia, dysplasia GI, epigastric pain, eructation, esophageal disorder, frequent stools, gastroenteritis, GI hemorrhage, GI symptoms not otherwise specified, hiccup, melena, mouth disorder, pharynx disorder, rectal disorder, serum gastrin increased, tongue disorder, tongue edema, ulcerative stomatitis, vomiting;

Hearing: earache, tinnitus;

Hematologic: anemia, anemia hypochromic, cervical lymphadenopathy, epistaxis, leukocytosis, leukopenia, thrombocytopenia;

Hepatic: bilirubinemia, hepatic function abnormal, SGOT increased, SGPT increased;

Metabolic/Nutritional: glycosuria, hyperuricemia, hyponatremia, increased alkaline phosphatase, thirst, vitamin B12 deficiency, weight increase, weight decrease;

Musculoskeletal: arthralgia, arthritis aggravated, arthropathy, cramps, fibromyalgia syndrome, hernia, polymyalgia rheumatica;

Nervous System/Psychiatric: anorexia, apathy, appetite increased, confusion, depression aggravated, dizziness, hypertonia, nervousness, hypoesthesia, impotence, insomnia, migraine, migraine aggravated, paresthesia, sleep disorder, somnolence, tremor, vertigo, visual field defect;

Reproductive: dysmenorrhea, menstrual disorder, vaginitis;

Respiratory: asthma aggravated, coughing, dyspnea, larynx edema, pharyngitis, rhinitis, sinusitis;

Skin and Appendages: acne, angioedema, dermatitis, pruritus, pruritus ani, rash, rash erythematous, rash maculo-papular, skin inflammation, sweating increased, urticaria;

Special Senses: otitis media, parosmia, taste loss, taste perversion;

Urogenital: abnormal urine, albuminuria, cystitis, dysuria, fungal infection, hematuria, micturition frequency, moniliasis, genital moniliasis, polyuria;

Visual: conjunctivitis, vision abnormal

The following potentially clinically significant laboratory changes in clinical trials, irrespective of relationship to esomeprazole magnesium delayed-release capsules, were reported in $\leq 1\%$ of patients: increased creatinne, uric acid, total bilirubin, alkaline phosphatase, ALT, AST, hemoglobin, white blood cell count, platelets, serum gastrin, potassium, sodium, thyroxine and thyroid stimulating hormone [see <u>Clinical</u> <u>Pharmacology (12)</u>]. Decreases were seen in hemoglobin, white blood cell count, platelets, potassium, sodium, and thyroxine.

Endoscopic findings that were reported as adverse reactions include: duodenitis, esophagitis, esophageal stricture, esophageal ulceration, esophageal varices, gastric ulcer, gastritis, hernia, benign polyps or nodules, Barrett's esophagus, and mucosal discoloration.

The incidence of treatment-related adverse reactions during 6-month maintenance treatment was similar to placebo. There were no differences in types of related adverse reactions seen during maintenance treatment up to 12 months compared to short-term treatment.

Two placebo-controlled studies were conducted in 710 patients for the treatment of symptomatic gastroesophageal reflux disease. The most common adverse reactions that were reported as possibly or probably related to esomeprazole magnesium delayedrelease capsules were diarrhea (4.3%), headache (3.8%), and abdominal pain (3.8%).

Pediatrics

The safety of esomeprazole magnesium delayed-release capsules was evaluated in 316 pediatric and adolescent patients aged 1 to 17 years in four clinical trials for the treatment of symptomatic GERD [see <u>ClinicalStudies (14.2</u>)]. In 109 pediatric patients aged 1 to 11 years, the most frequently reported (at least 1%) treatment-related adverse reactions in these patients were diarrhea (2.8%), headache (1.9%) and somnolence (1.9%). In 149 pediatric patients aged 12 to 17 years the most frequently reported (at least 2%), the dominal pain (2.7%), diarrhea (2%), and nausea (2%).

No new safety concerns were identified in pediatric patients.

Combination Treatment with Amoxicillin and Clarithromycin

In clinical trials using combination therapy with esomeprazole magnesium delayedrelease capsules plus amoxicillin and clarithromycin, no additional adverse reactions specific to these drug combinations were observed. Adverse reactions that occurred were limited to those observed when using esomeprazole magnesium delayed-release capsules, amoxicillin, or clarithromycin alone.

The most frequently reported drug-related adverse reactions for patients who received triple therapy for 10 days were diarrhea (9.2%), taste perversion (6.6%), and abdominal pain (3.7%). No treatment-emergent adverse reactions were observed at higher rates with triple therapy than were observed with esomeprazole magnesium delayed-release capsules alone.

For more information on adverse reactions with amoxicillin or clarithromycin, refer to

their package inserts, Adverse Reactions sections.

In clinical trials using combination therapy with esomeprazole magnesium delayedrelease capsules plus amoxicillin and clarithromycin, no additional increased laboratory abnormalities particular to these drug combinations were observed.

For more information on laboratory changes with amoxicillin or clarithromycin, refer to their package inserts, Adverse Reactions section.

6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of esomeprazole magnesium delayed-release capsules. 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. These reports are listed below by body system:

Blood and Lymphatic: agranulocytosis, pancytopenia;

Eye: blurred vision;

Gastrointestinal: pancreatitis; stomatitis; microscopic colitis; fundic gland polyps;

Hepatobiliary: hepatic failure, hepatitis with or without jaundice;

Immune System: anaphylactic reaction/shock; systemic lupus erythematosus;

Infections and Infestations: GI candidiasis; Clostridium difficile-associated diarrhea;

Metabolism and nutritional disorders: hypomagnesemia, with or without hypocalcemia and/or hypokalemia;

Musculoskeletal and Connective Tissue: muscular weakness, myalgia, bone fracture;

Nervous System: hepatic encephalopathy, taste disturbance

Psychiatric: aggression, agitation, depression, hallucination;

Renal and Urinary: interstitial nephritis;

Reproductive System and Breast: gynecomastia;

Respiratory, Thoracic, and Mediastinal: bronchospasm;

Skin and Subcutaneous Tissue: alopecia, erythema multiforme, hyperhidrosis, photosensitivity, Stevens-Johnson syndrome, toxic epidermal necrolysis (some fatal), cutaneous lupus erythematosus.

7 DRUG INTERACTIONS

7.1 Interference with Antiretroviral Therapy

Concomitant use of atazanavir and nelfinavir with proton pump inhibitors is not recommended. Co-administration of atazanavir with proton pump inhibitors is expected to substantially decrease atazanavir plasma concentrations and may result in a loss of therapeutic effect and the development of drug resistance. Co-administration of saquinavir with proton pump inhibitors is expected to increase saquinavir concentrations, which may increase toxicity and require dose reduction.

Omeprazole, of which esomeprazole is an enantiomer, 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.

Reduced concentrations of atazanavir and nelfinavir

For some antiretroviral drugs, such as atazanavir and neffinavir, decreased serum levels have been reported when given together with omeprazole. Following multiple doses of neffinavir (1250 mg, twice daily) and omeprazole (40 mg daily), AUC was decreased by 36% and 92%, C $_{\rm max}$ by 37% and 89% and C $_{\rm min}$ by 39% and 75% respectively for neffinavir and M8. Following multiple doses of atazanavir (400 mg, daily), and omeprazole (40 mg, daily), and omeprazole (40 mg, daily, 2 hours before atazanavir, AUC was decreased by 94%, C $_{\rm max}$ by 96%, and C $_{\rm min}$ by 95%. Concomitant administration with omeprazole and drugs such as atazanavir and neffinavir and therefore not recommended.

Increased concentrations 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 (1,000/100 mg) twice daily for 15 days with omeprazole 40 mg daily co-administered days 11 to 15. Therefore, clinical and laboratory monitoring for saquinavir toxicity is recommended during concurrent use with Esomeprazole Magnesium Delayed-Release Capsules. 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.

7.2 Drugs for Which Gastric pH Can Affect Bioavailability

Due to its effects on gastric acid secretion, esomeprazole 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 mofetii (MMF) can decrease, while the absorption of drugs such as digoxin can increase during treatment with esomeprazole. Esomeprazole is an enantiomer of omeprazole. Concomitant treatment with omeprazole (20 mg daily) and digoxin in healthy subjects increased the bioavailability of digoxin by 10% (30% in two subjects). Co-administration of digoxin with esomeprazole magnesium delayed-release capsules is expected to increase the systemic exposure of digoxin. Therefore, patients may need to be monitored when digoxin is taken concomitantly with esomeprazole magnesium delayed-release capsules.

Co-administration 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 esomeprazole magnesium delayed-release capsules and MMF. Use esomeprazole magnesium delayed-release capsules with caution in transplant patients receiving MMF [see <u>Clinical Pharmacology (12.3)</u>].

7.3 Effects on Hepatic Metabolism/Cytochrome P-450 Pathways

Esomeprazole is extensively metabolized in the liver by CYP2C19 and CYP3A4. *In vitro* and *in vivo* studies have shown that esomeprazole is not likely to inhibit CYPs 1A2, 2A6, 2C9, 2D6, 2E1, and 3A4. No clinically relevant interactions with drugs metabolized by these CYP enzymes would be expected. Drug interaction studies have shown that esomeprazole does not have any clinically significant interactions with phenytoin, warfarin, quindine, clarithromycin, or amoxicillin.

However, postmarketing reports of changes in prothrombin measures have been received among patients on concomitant warfarin and esomeprazole therapy. Increases in INR and prothrombin time may lead to abnormal bleeding and even death. Patients treated with proton pump inhibitors and warfarin concomitantly may need to be monitored for increases in INR and prothrombin time.

Esomeprazole may potentially interfere with CYP2C19, the major esomeprazole metabolizing enzyme. Co-administration of esomeprazole 30 mg and diazepam, a CYP2C19 substrate, resulted in a 45% decrease in clearance of diazepam.

Clopidogrel

Clopidogrel is metabolized to its active metabolite in part by CYP2C19. Concomitant use

of esomeprazole 40 mg results in reduced plasma concentrations of the active metabolite of clopidogrel and a reduction in platelet inhibition. Avoid concomitant administration of esomeprazole magnesium delayed-release capsules with clopidogrel. When using esomeprazole magnesium delayed-release capsules, consider use of alternative anti-platelet therapy [see <u>Clinical Pharmacology (12.3)</u>].

Omeprazole acts as an inhibitor of CYP2C19. Omeprazole, given in doses of 40 mg daily for one week to 20 healthy subjects in cross-over study, increased C_{max} and AUC of cilostazol by 18% and 26% respectively. C_{max} and AUC of one of its active metabolites, 3,4-dihydrocilostazol, which has 4 to 7 times the activity of cilostazol, were increased by 29% and 69%, respectively. Co-administration of cilostazol with esomeprazole is expected to increase concentrations of cilostazol and its above mentioned active metabolite. Therefore, a dose reduction of cilostazol from 100 mg twice daily to 50 mg twice daily should be considered.

Concomitant administration of esomeprazole and a combined inhibitor of CYP2C19 and CYP3A4, such as voriconazole, may result in more than doubling of the esomeprazole exposure. Dose adjustment of esomeprazole is not normally required. However, in patients with Zollinger-Ellison's Syndrome, who may require higher doses up to 240 mg/day, dose adjustment may be considered.

Drugs known to induce CYP2C19 or CYP3A4 or both (such as rifampin) may lead to decreased esomeprazole serum levels. Omeprazole, of which esomeprazole is an enantiomer, has been reported to interact with St. John's Wort an inducer of CYP3A4. In a cross-over study in 12 healthy male subjects, St. John's Wort an inducer of CYP3A4. In a cross-over study in 12 healthy male subjects, St. John's Wort (300 mg three times daily for 14 days) significantly decreased the systemic exposure of omeprazole in CYP2C19 poor metabolisers (C $_{max}$ and AUC decreased by 37.5% and 37.9%, respectively) and extensive metabolisers (C $_{max}$ and AUC decreased by 49.6 % and 43.9%, respectively). Avoid concomitant use of St. John's Wort or rifampin with esomeprazole magnesium delayed-release capsules.

7.4 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 <u>Warnings and Precautions (5.10)</u> and <u>Clinical</u> <u>Pharmacology (12.2)</u>].

7.5 Tacrolimus

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

7.6 Combination Therapy with Clarithromycin

Co-administration of esomeprazole, clarithromycin, and amoxicillin has resulted in increases in the plasma levels of esomeprazole and 14-hydroxyclarithromycin [see <u>*Clinical Pharmacology* (12.4)</u>].

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].

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 <u>Warnings and Precautions (5.11)</u>].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no adequate and well-controlled studies with esomeprazole magnesium delayed-release capsules in pregnant women. Esomeprazole is the S-isomer of omeprazole. Available epidemiologic data fail to demonstrate an increased risk of major congenital malformations or other adverse pregnancy outcomes with first trimester omeprazole use. Reproduction studies in rats and rabbits resulted in dose-dependent embryo-lethality at omeprazole doses that were approximately 3.4 to 34 times an oral human dose of 40 mg (based on a body surface area for a 60 kg person).

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). 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 34 times an oral human dose of 40 mg. When maternal administration was confined to gestation only, there were no effects on bone physeal morphology in the offspring at any age *[see* Data *]*.

The estimated background risks of major birth defects and miscarriage for the indicated population are unknown. All pregnancies have a background risk of birth defect, loss or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Data

Human Data

Esomeprazole is the S-isomer of omeprazole. Four epidemiological studies compared the frequency of congenital abnormalities among infants born to women who used omeprazole during pregnancy with the frequency of abnormalities among infants of women exposed to H _receptor antagonists or other controls.

A population-based retrospective cohort epidemiological study from the Swedish Medical Birth Registry, covering approximately 99% of pregnancies, from 1995 to 1999, reported on 955 infants (824 exposed during the first trimester with 39 of these exposed beyond first trimester, and 131 exposed after the first trimester) whose mothers used omeprazole during pregnancy. The number of infants exposed in utero to omeprazole that had any malformation, low birth weight, low Apgar score, or hosptalization was similar to the number observed in this population. The number of slightly higher in the omeprazole-exposed infants than the expected number in this population.

A population-based retrospective cohort study covering all live births in Denmark from 1996 to 2009, reported on 1.800 live births whose mothers used omeprazole during the first trimester of pregnancy and 837.317 live births whose mothers did not use any proton pump inhibitor. The overall rate of birth defects in infants born to mothers with first trimester exposure to omeprazole was 2.9% and 2.6% in infants born to mothers not exposed to any proton pump inhibitor during the first trimester.

A retrospective cohort study reported on 689 pregnant women exposed to either H $_2$ -blockers or omeprazole in the first trimester (134 exposed to omeprazole) and 1,572 pregnant women unexposed to either during the first trimester. The overall malformation rate in offspring born to mothers with first trimester exposure to omeprazole, an H $_2$ -blocker, or were unexposed was 3.6%, 5.5%, and 4.1% respectively.

A small prospective observational cohort study followed 113 women exposed to omeprazole during pregnancy (89% with first trimester exposures). The reported rate of major congenital malformations was 4% in the omeprazole group, 2% in controls exposed to non-teratogens, and 2.8% in disease paired controls. Rates of spontaneous and elective abortions, preterm deliveries, gestational age at delivery, and mean birth weight were similar among the groups.

Several studies have reported no apparent adverse short-term effects on the infant when single dose oral or intravenous omeprazole was administered to over 200 pregnant women as premedication for cesarean section under general anesthesia.

Animal Data

Omeprazole

Reproductive studies conducted with omeprazole in rats at oral doses up to 138 mg/kg/day (about 34 times an oral human dose of 40 mg on a body surface area basis) and in rabbits at doses up to 69.1 mg/kg/day (about 34 times an oral human dose of 40 mg on a body surface area basis) during organogenesis did not disclose any evidence for a teratogenic potential of omeprazole. In rabbits, omeprazole in a dose range of 6.9 to 69.1 mg/kg/day (about 3.4 to 34 times an oral human dose of 40 mg on a body surface area basis) administered during organogenesis 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 3.4 to 34 times an oral budy surface area basis), administered prior to mating through the lactation period.

Esomeprazole

No effects on embryo-fetal development were observed in reproduction studies with esomeprazole magnesium in rats at oral doses up to 280 mg/kg/day (about 68 times an oral human dose of 40 mg on a body surface area basis) or in rabbits at oral doses up to 86 mg/kg/day (about 41 times an oral human dose of 40 mg on a body surface area basis) administered during organogenesis.

A pre- and postnatal developmental toxicity study in rats with additional endpoints to evaluate bone development was performed with esomeprazole magnesium at oral doses of 14 to 280 mg/kg/day (about 3.4 to 68 times an oral human dose of 40 mg on a body surface area basis). Neonatal/early postnatal (birth to weaning) survival was decreased at doses equal to or greater than 138 mg/kg/day (about 34 times an oral human dose of 40 mg on a body surface area basis). Body weight and body weight gain were reduced and neurobehavioral or general developmental delays in the immediate post-weaning timeframe were evident at doses equal to or greater than 69 mg/kg/day (about 17 times an oral human dose of 40 mg on a body surface area basis). In addition, decreased femur length, width and thickness of cortical bone, decreased thickness of the tibial growth plate and minimal to mild bone marrow hypocellularity were noted at doses equal to or greater than 14 mg/kg/day (about 3.4 times an oral human dose of 40 mg on a body surface area basis). Physeal dysplasia in the femur was observed in offspring of rats treated with oral doses of esomeprazole magnesium at doses equal to or greater than 138 mg/kg/day (about 3.4 times an oral human dose of 40 mg on a body surface area basis).

Effects on maternal bone were observed in pregnant and lactating rats in a pre- and postnatal toxicity study when esomeprazole magnesium was administered at oral doses of 14 to 280 mg/kg/day (about 3.4 to 68 times an oral human dose of 40 mg on a body surface area basis). When rats were dosed from gestational day 7 through weaning on postnatal day 21, a statistically significant decrease in maternal femur weight of up to 14% (as compared to placebo treatment) was observed at doses equal to or greater than 138 mg/kg/day (about 34 times an oral human dose of 40 mg on a body surface area basis).

A pre- and postnatal development study in rats with esomeprazole strontium (using equimolar doses compared to esomeprazole magnesium study) produced similar results in dams and pups as described above.

A follow up developmental toxicity study in rats with further time points to evaluate pup bone development from postnatal day 2 to adulthood was performed with esomeprazole magnesium at oral doses of 280 mg/kg/day (about 68 times an oral human dose of 40 mg on a body surface area basis) where esomeprazole administration was from either gestational day 7 or gestational day 16 until parturition. When maternal administration was confined to gestation only, there were no effects on bone physeal morphology in the offspring at any age.

8.2 Lactation

Risk Summary

Esomeprazole is the S-isomer of omeprazole and limited data suggest that omeprazole may be present in human milk. There are no clinical data on the effects of esomeprazole on the breastfed infant or on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for esomeprazole magnesium delayed-release capsules and any potential adverse effects on the breastfed infant from esomeprazole magnesium delayed-release capsules or from the underlying maternal condition.

8.4 Pediatric Use

The safety and effectiveness of esomeprazole magnesium delayed-release capsules have been established in pediatric patients 1 to 17 years of age for short-term treatment (up to eight weeks) of GERD.

1 to 17 years of age

Use of esomeprazole magnesium delayed-release capsules in pediatric and adolescent patients 1 to 17 years of age for short-term treatment (up to eight weeks) of GERD is supported by extrapolation of results from adequate and well-controlled studies for adults and safety and pharmacokinetic studies performed in pediatric and adolescent patients (*see Dosage and Administration (2), Adverse Reactions (6.1), Clinical Pharmacology (12.3), and Clinical Studies (14.3)]*. The safety and effectiveness of esomeprazole magnesium delayed-release capsules for other pediatric uses have not been established.

The safety and effectiveness of esomeprazole magnesium delayed-release capsules in neonates have not been established.

Juvenile Animal Data

In a juvenile rat toxicity study, esomeprazole was administered with both magnesium and strontium salts at oral doses about 34 to 68 times a daily human dose of 40 mg based on body surface area. Increases in death were seen at the high dose, and at all doses of esomeprazole, there were decreases in body weight, body weight gain, femur weight and femur length, and decreases in overall growth *[see Nonclinical Toxicology (* <u>32,2)</u>].

8.5 Geriatric Use

Of the total number of patients who received esome prazole magnesium delayed-release capsules in clinical trials, 1,459 were 65 to 74 years of age and 354 patients were \geq 75 years of age.

No overall differences in safety and efficacy were observed between the elderly and younger individuals, 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.

10 OVERDOSAGE

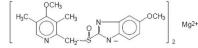
A single oral dose of esomeprazole at 510 mg/kg (about 124 times the human dose on a body surface area basis), was lethal to rats. The major signs of acute toxicity were reduced motor activity, changes in respiratory frequency, tremor, ataxia, and intermittent clonic convulsions.

The symptoms described in connection with deliberate esomeprazole magnesium delayed-release capsules overdose (limited experience of doses in excess of 240 mg/day) are transient. Single doses of 80 mg of esomeprazole were uneventful. Reports of overdosage with omeprazole in humans may also be relevant. Doses ranged up to 2,400 mg (120 times the usual recommended clinical dose). Manifestations were variable, but included confusion, drowsiness, blurred vision, tachycardia, nausea, diaphoresis, flushing, headache, dry mouth, and other adverse reactions similar to those seen in normal clinical experience (see omeprazole package insert - *Adverse Reactions)*. No specific antidote for esomeprazole is known. Since esomeprazole is extensively protein bound, it is not expected to be removed by dialysis. In the event of overdosage, treatment should be symptomatic and supportive.

As with the management of any overdose, the possibility of multiple drug ingestion should be considered. For current information on treatment of any drug overdose contact a Poison Control Center at 1-800-222-1222.

11 DESCRIPTION

The active ingredient in the proton pump inhibitor esomeprazole magnesium delayed, release capsules, USP for oral administration is bis(5-methoxy-2-((5)-((4-methoxy-2-(dimethyl-2-pyridinyl)methyl]sulfny()-1 H-benzimidazole-1-y) magnesium. Esomeprazole is the S-isomer of omeprazole, which is a mixture of the S- and R- isomers. (Initial U.S. approval of esomeprazole magnesium: 2001). Its molecular formula is (C $_{17}H_{18}A_{20}$ -3) $_2$ Mg with molecular weight of 713.1 on an anhydrous basis. The structural formula is:



The magnesium salt is a white to slightly colored crystalline powder. The stability of esomeprazole magnesium is a function of pH; it rapidly degrades in acidic media, but it has acceptable stability under alkaline conditions. At pH 6.8 (buffer), the half-life of the magnesium salt is about 19 hours at 25° C and about 8 hours at 37° C.

Esomeprazole magnesium delayed-release capsules are supplied in delayed-release capsules. Each delayed-release capsule contains 20 mg, or 40 mg of esomeprazole (present as 20.7 mg, or 41.4 mg esomeprazole magnesium) in the form of enteric-coated granules with the following inactive ingredients:

20mg: D&C Red 28, ethyl cellulose, FD & C Red 40, gelatin, iron oxide yellow, magnesium oxide (light), magnesium stearate, methacrylic acid co-polymer, mono and diglycerides, polysorbate 80, povidone (K90D), sodium lauryl sulfate, sugar spheres, talc, titanium dioxide and triethyl citrate.

40mg: D&C Red 28, ethyl cellulose, FD & C Red 40, gelatin, magnesium oxide (light), magnesium stearate, methacrylic acid co-polymer, mono and diglycerides, polysorbate 80, povidone (K90D), sodium lauryl sulfate, sugar spheres, talc, titanium dioxide and triethyl citrate.

Capsules have pharmaceutical grade printing ink that contains black iron oxide, potassium hydroxide, povidone, propylene glycol, shellac, sodium hydroxide and titanium dioxide.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Esomeprazole is a proton pump inhibitor that suppresses gastric acid secretion by specific inhibition of the H +/K +-ATPase in the gastric parietal cell. The S- and R-isomers of omeprazole are protonated and converted in the acidic compartment of the parietal cell forming the active inhibitor, the achiral suphenamide. By acting specifically on the proton pump, esomeprazole blocks the final step in acid production, thus reducing gastric acidity. This effect is dose-related up to a daily dose of 20 to 40 mg and leads to inhibiton of gastric acid secretion.

12.2 Pharmacodynamics

Antisecretory Activity

The effect of esomeprazole magnesium delayed-release capsules on intragastric pH was determined in patients with symptomatic gastroesophageal reflux disease in two separate studies. In the first study of 36 patients, esomeprazole magnesium delayed-release capsules 40 mg and 20 mg capsules were administered over 5 days. The results are shown in the Table 3:

Table 3:Effect on Intragastric pH on Day 5 (N=36)

Parameter	Esomeprazole	Esomeprazole				
	Magnesium	Magnesium				
	Delayed-Release	Delayed-Release				
	Capsules 40 mg	Capsules 20 mg				
% Time Gastric	70% ²	53%				
pH >4 ¹ (Hours)	(16.8 h)	(12.7 h)				
Coefficient of variation	26%	37%				
Median 24 Hour pH	4.9 ²	4.1				
Coefficient of variation	16%	27%				
^{1.} Gastric pH was measured over a 24-hour period						
2 n < 0.01 esementazele magnasium delaued telesse canquiles						

² p< 0.01 esomeprazole magnesium delayed-release capsules 40 mg vs. esomeprazole magnesium delayed-release capsules 20 mg

In a second study, the effect on intragastric pH of esomeprazole magnesium delayed-release capsules 40 mg administered once daily over a five day period was similar to the first study, (% time with pH > 4 was 68% or 16.3 hours).

Serum Gastrin Effects

The effect of esomeprazole magnesium delayed-release capsules on serum gastrin concentrations was evaluated in approximately 2,700 patients in clinical trials up to 8 weeks and in over 1,300 patients for up to 6 to 12 months. The mean fasting gastrin level increased in a dose-related manner. This increase reached a plateau within two to three months of therapy and returned to baseline levels within four weeks after discontinuation of therapy.

Increased gastrin causes enterochromaffin-like cell hyperplasia and increased serum Chromogranin A (CgA) levels. The increased CgA levels may cause false positive results in diagnostic investigations for neuroendocrine tumors. Healthcare providers should temporarily stop esomeprazole treatment at least 14 days before assessing CgA levels and consider repeating the test if initial CgA levels are high.

Enterochromaffin-like (ECL) Cell Effects

In 24-month carcinogenicity studies of omeprazole in rats, a dose-related significant occurrence of gastric ECL cell carcinoid tumors and ECL cell hyperplasia was observed in both male and female animals *[see <u>Nonclinical Toxicology (13.1)</u>]*. Carcinoid tumors have also been observed in rats subjected to fundectomy or long-term treatment with Human gastric biopsy specimens have been obtained from more than 3,000 patients (both children and adults) treated with omeprazole in long-term clinical trials. The incidence of ECL cell hyperplasia in these studies increased with time; however, no case of ECL cell carcinoids, dysplasia, or neoplasia has been found in these patients.

In over 1,000 patients treated with esomeprazole magnesium delayed-release capsules (10, 20 or 40 mg/day) up to 6 to 12 months, the prevalence of ECL cell hyperplasia increased with time and dose. No patient developed ECL cell carcinoids, dysplasia, or neoplasia in the gastric mucosa.

Endocrine Effects

Esomeprazole magnesium delayed-release capsules had no effect on thyroid function when given in oral doses of 20 or 40 mg for 4 weeks. Other effects of esomeprazole magnesium delayed-release capsules on the endocrine system were assessed using omeprazole studies. Omeprazole given in oral doses of 30 or 40 mg for 2 to 4 weeks had no effect on carbohydrate metabolism, circulating levels of parathyroid hormone, cortisol, estradiol, testosterone, prolactin, cholecystokinin, or secretin.

12.3 Pharmacokinetics

Absorption

Esomeprazole magnesium delayed-release capsules contain a bioequivalent entericcoated granule formulation of esomeprazole magnesium. Bioequivalency is based on a single dose (40 mg) study in 94 healthy male and female volunteers under fasting condition. After oral administration, peak plasma levels (C max) occur at approximately 1.5 hours (T max). The C max increases proportionally when the dose is increased, and there is a three-fold increase in the area under the plasma concentration-time curve (AUC) from 20 to 40 mg. At repeated once-daily dosing with 40 mg, the systemic bioavailability is approximately 90% compared to 64% after a single dose of 40 mg. The mean exposure (AUC) to esomeprazole increases from 4.32 mol ^{*}hr/L on Day 1 to 11.2 mol ^{*}hr/L on Day 5 after 40 mg once daily dosing.

The AUC after administration of a single 40 mg dose of esomeprazole magnesium delayed-release capsules is decreased by 43% to 53% after food intake compared to fasting conditions. esomeprazole magnesium delayed-release capsules should be taken at least one hour before meals.

The pharmacokinetic profile of esomeprazole magnesium delayed-release capsules was determined in 36 patients with symptomatic gastroesophageal reflux disease following repeated once daily administration of 20 mg and 40 mg capsules of esomeprazole magnesium delayed-release capsules over a period of five days. The results are shown in the Table 4:

Table 4:Pharmacokinetic Parameters of Esomeprazole Magnesium Delayed-Release Capsules on Day 5 Following Oral Dosing for 5 Days

Parameter ¹ (CV)	Esomeprazole Magnesium Delayed-	Esomeprazole Magnesium Delayed-
	Release Capsules 40	Release Capsules 20
	mg	mg
AUC (µmol•h/L)	12.6 (42%)	4.2 (59%)
C _{max} (µmol/L)	4.7 (37%)	2.1 (45%)
T _{max} (h)	1.6	1.6
t _{1/2} (h)	1.5	1.2

1.Values represent the geometric mean, except the T $_{max}$ which is the arithmetic mean; CV = Coefficient of variation

Distribution

Esomeprazole is 97% bound to plasma proteins. Plasma protein binding is constant over the concentration range of 2 to 20 mol/L. The apparent volume of distribution at steady state in healthy volunteers is approximately 16 L.

Metabolism

Esomeprazole is extensively metabolized in the liver by the cytochrome P450 (CYP) enzyme system. The metabolites of esomeprazole lack antisecretory activity. The major part of esomeprazole's metabolism is dependent upon the CYP2C19 isoenzyme, which

part of esomeprazole's metabolism is dependent upon the CYP2C19 isoenzyme, which forms the hydroxy and desmethyl metabolites. The remaining amount is dependent on CYP3A4 which forms the sulphone metabolite. CYP2C19 isoenzyme exhibits polymorphism in the metabolism of esomeprazole, since some 3% of Caucasians and 15 to 20% of Asians lack CYP2C19 and are termed Poor Metabolizers. At steady state, the ratio of AUC in Poor Metabolizers to AUC in the rest of the population (Extensive Metabolizers) is approximately 2.

Following administration of equimolar doses, the S- and R-isomers are metabolized differently by the liver, resulting in higher plasma levels of the S- than of the R-isomer. Excretion

EXCIPLION

The plasma elimination half-life of esomeprazole is approximately 1 to 1.5 hours. Less than 1% of parent drug is excreted in the urine. Approximately 80% of an oral dose of esomeprazole is excreted as inactive metabolites in the urine, and the remainder is found as inactive metabolites in the feces.

Combination Therapy with Antimicrobials

Esomeprazole magnesium 40 mg once daily was given in combination with clarithromycin 500 mg twice daily and amoxicillin 1,000 mg twice daily for 7 days to 17 healthy male and female subjects. The mean steady state AUC and C max of esomeprazole increased by 70% and 18%, respectively during triple combination therapy compared to treatment with esomeprazole alone. The observed increase in esomeprazole exposure during co-administration with clarithromycin and amoxicillin is not expected to produce significant safety concerns.

The pharmacokinetic parameters for clarithromycin and amoxiciliin were similar during triple combination therapy and administration of each drug alone. However, the mean AUC and C max for 14-hydroxyclarithromycin increased by 19% and 22%, respectively, during triple combination therapy compared to treatment with clarithromycin alone. This increase in exposure to 14-hydroxyclarithromycin is not considered to be clinically significant.

Concomitant Use with Clopidogrel

Results from a crossover study in healthy subjects have shown a pharmacokinetic interaction between clopidogrel (300 mg loading dose/75 mg daily maintenance dose) and esomeprazole (40 mg p.o. once daily) when co-administered for 30 days. Exposure to the active metabolite of clopidogrel was reduced by 35% to 40% over this time period.

Pharmacodynamic parameters were also measured and demonstrated that the change in inhibition of platelet aggregation was related to the change in the exposure to clopidogrel active metabolite.

Concomitant Use with Mycophenolate Mofetil

Administration of omeprazole 20 mg twice daily for 4 days and a single 1,000 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.

Specific Populations

Age: Geriatric Population

The AUC and C $_{\rm max}$ values were slightly higher (25% and 18%, respectively) in the elderly as compared to younger subjects at steady state. Dosage adjustment based on age is not necessary.

1 to 11 Years of Age

The pharmacokinetics of esomeprazole were studied in pediatric patients with GERD aged 1 to 11 years. Following once daily dosing for 5 days, the total exposure (AUC) for the 10 mg dose in patients aged 6 to 11 years was similar to that seen with the 20 mg dose in patients aged 1 to 12 vears was similar to that seen with the 20 mg dose in patients aged 1 to 5 years was approximately 30% higher than the 10 mg dose in patients aged 6 to 11 years. The total exposure for the 10 mg dose in patients aged 6 to 11 years. The total exposure for the 20 mg dose in patients aged 6 to 11 years. The total exposure for the 20 mg dose in 12 to 17 year-olds and adults, but lower than that observed with the 40 mg dose in 12 to 17 year-olds and adults.

Table 6: Summary of PK Parameters in 1 to 11 Year Olds with GERD following 5 Days of Once-Daily Oral Esomeprazole Treatment

	1 to 5 Year 6 to 11 Year Olds			
Parameter	10 mg (N = 8)	10 mg (N = 7)	20 mg (N = 6)	
AUC (µmol•h/L) ¹	4.83	3.70	6.28	
C _{max} (µmol/L) ¹	2.98	1.77	3.73	
t _{max} (h) ²	1.44	1.79	1.75	
t _{½z} (h) ¹	0.74	0.88	0.73	
Cl/F (L/h) ¹	5.99	7.84	9.22	
^{1.} Geometric mean	3.99	7.04	9.22	

^{2.} Arithmetic mean

12 to 17 Years of Age

The pharmacokinetics of esomeprazole magnesium delayed-release capsules were studied in 28 adolescent patients with GERD aged 12 to 17 years inclusive, in a single center study. Patients were randomized to receive esomeprazole magnesium delayed-release capsules 20 mg or 40 mg once daily for 8 days. Mean C max and AUC values of esomeprazole were not affected by body weight or age; and more than dose-proportional increases in mean C max and AUC values were observed between the two dose groups in the study. Overall, esomeprazole magnesium delayed-release capsules in adolescent patients aged 12 to 17 years were similar to those observed in adult patients with symptomatic GERD. See Table 7.

Table 7:Comparison of PK Parameters in 12 to 17 Year Olds with GERD and Adults with Symptomatic GERD Following the Repeated Daily Oral Dose Administration of Esomeprazole 1

	12 to 17 Year Olds (N=28)		Adults	(N=36)	
	20 mg	40 mg	20 mg	40 mg	
AUC (µmol*h/L)	3.65	13.86	4.2	12.6	
C _{max} (µmol/L)	1.45	5.13	2.1	4.7	
t _{max} (h)	2.00	1.75	1.6	1.6	
t ½z (h)	0.82	1.22	1.2	1.5	

value for t max. 1. Duration of treatment for 12 to 17 year olds and adults were 8 days and 5 days, respectively. Data were obtained from two independent studies.

Gender

The AUC and C $_{\rm max}$ values were slightly higher (13%) in females than in males at steady state. Dosage adjustment based on gender is not necessary.

Hepatic Insufficiency

The steady state pharmacokinetics of esomeprazole obtained after administration of 40 mg once daily to 4 patients each with mild (Child-Pugh Class A), moderate (Child-Pugh Class C) iver insufficiency were compared to those obtained in 36 male and female GERD patients with normal liver function. In patients with mild and moderate hepatic insufficiency, the AUCs were within the range that could be expected in patients with normal liver function. In patients with normal liver function, to dosage adjustment is recommended for patients with normal liver function. No dosage adjustment is recommended for patients with severe hepatic insufficiency (Child-Pugh Classes A and B). However, in patients with severe hepatic insufficiency (Child-Pugh Classes C) ad ose of 20 mg once daily should not be exceeded [see Dosage and Administration (2)].

Renal Insufficiency

The pharmacokinetics of esomeprazole magnesium delayed-release capsules in patients with renal impairment are not expected to be altered relative to healthy volunteers as less than 1% of esomeprazole is excreted unchanged in urine.

Other pharmacokinetic observations

Co-administration of oral contraceptives, diazepam, phenytoin, or quinidine did not seem to change the pharmacokinetic profile of esomeprazole.

Studies evaluating concomitant administration of esomeprazole and either naproxen (non-selective NSAID) or rofecoxib (COX-2 selective NSAID) did not identify any clinically relevant changes in the pharmacokinetic profiles of esomeprazole or these NSAIDs.

12.4 Microbiology

Esomeprazole magnesium delayed-release capsules, amoxicillin, and clarithromycin triple therapy has been shown to be active against most strains of *Helicobacter pylori* (*H. pylori*) in vitro and in clinical infections [see <u>Indications and Usage (1)</u> and <u>clinical Studies</u> (14)].

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

Pretreatment Resistance: Clarithromycin pretreatment resistance rate (MIC \geq 1 mcg/mL) to *H. pylori* was 15% (66/445) at baseline in all treatment groups combined. A total of > 99% (394/395) of patients had *H. pylori* isolates that were considered to be susceptible (MIC \leq 0.25 mcg/mL) to amoxicillin at baseline. One patient had a baseline *H. pylori* isolate with an amoxicillin MIC = 0.5 mcg/mL.

Clarithromycin Susceptibility Test Results and Clinical/Bacteriologic Outcomes: The baseline H. pylori clarithromycin susceptibility results and the H. pylori eradication results at the Day 38 visit are shown in the Table 8:

Table 8:Clarithromycin Susceptibility Test Results and Clinical/Bacteriological Outcomes ¹for Triple Therapy -(Esomeprazole Magnesium 40 mg once daily/amoxicillin 1,000 mg twice daily/clarithromycin 500 mg twice daily for 10 days)

Clarithromycin	H. pylori	H. pylori positive (Not Eradicated)
Pretreatment	negative	Post-treatment susceptibility
Poculto	(Fradicated)	recults

			•	R 2	No MIC
	162	4	0	2	14
1	1	0	0	0	0
29	13	1	0	13	2
	1	1 1 29 13	1 1 0 29 13 1	1 1 0 0 29 13 1 0	1 1 0 0 0

 Includes only patients with pretreatment and post-treatment clarithromycin susceptibility test results
 Conservice Latermediate (I) NIC 2

 $^2\cdot$ Susceptible (S) MIC ≤ 0.25 mcg/mL, Intermediate (I) MIC = 0.5 mcg/mL, Resistant (R) MIC ≥ 1.0 mcg/mL

Patients not eradicated of *H. pylori* following esomeprazole magnesium delayed-release capsules/amoxicilim/clarithromycin triple therapy will likely have clarithromycin resistant *H. pylori* isolates. Therefore, clarithromycin susceptibility testing should be done, when possible. Patients with clarithromycin resistant *H. pylori* should not be re-treated with a clarithromycin-containing regimen.

Amoxicillin Susceptibility Test Results and Clinical/Bacteriological Outcomes:

In the esomeprazole magnesium delayed-release capsules/amoxicillin/clarithromycin clinical trials, 83% (176/212) of the patients in the esomeprazole magnesium delayed-release capsules/amoxicillin/clarithromycin treatment group who had pretreatment amoxicillin susceptible MICs (≤ 0.25 mcg/mL) were eradicated of *H. pylori*, and 17% (36/212) were not eradicated of *H. pylori* on triple therapy, 16 had no post-treatment susceptible MICs (≤ 0.25 mcg/mL) were eradicated of *H. pylori* on triple therapy, 16 had no post-treatment susceptible MICs. Fifteen of the patients who were not eradicated of *H. pylori* is olates with amoxicillin susceptible MICs. Fifteen of the patients who were not eradicated of *H. pylori* is olates with clarithromycin treistant MICs. There were no patients with *H. pylori* is olates who developed treatment mergent resistance to amoxicillin.

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

Effects on Gastrointestinal Microbial Ecology: Decreased gastric acidity due to any means, including proton pump inhibitors, increases gastric counts of bacteria normally present in the gastrointestinal tract. Treatment with proton pump inhibitors may lead to slightly increased risk of gastrointestinal infections such as Salmonella and Campylobacter and possibly Clostridium difficile in hospitalized patients.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

The carcinogenic potential of esomeprazole magnesium delayed-release capsules was assessed using studies of omeprazole, of which esomeprazole is an enantiomer. In two 24-month oral carcinogenicity studies in rats, omeprazole at daily doses of 1.7, 3.4, 13.8, 44, and 140.8 mg/kg/day (about 0.4 to 34 times the human dose of 40 mg/day expressed on a body surface area basis) produced gastric ECL cell carcinoids in a doserelated 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 (about 3.4 times the human dose of 40 mg/day on a body surface area basis) for 1 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 1 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 2 years. For this strain of rat no similar tumor rats been noted historically, but a finding involving only one tumor is difficult to interpret. A 78-week mouse carcinogenicity study of omeprazole did not show increased tumor occurrence, but the study was not conclusive.

Esomeprazole was negative in the Ames mutation test, in the *in vivo* rat bone marrow cell chromosome aberration test, and the *in vivo* mouse micronucleus test. Esomeprazole, however, was positive in the *in vitro* human lymphocyte chromosome aberration test. Omeprazole was positive in the *in vitro* human lymphocyte chromosome aberration test, the *in vivo* mouse bone marrow cell chromosome aberration test, and the *in vivo* mouse micronucleus test.

The potential effects of esomeprazole on fertility and reproductive performance were assessed using omeprazole studies. Omeprazole at oral doses up to 138 mg/kg/day in rats (about 34 times the human dose of 40 mg/day on a body surface area basis) was found to have no effect on reproductive performance of parental animals.

13.2 Animal Toxicology and/or Pharmacology

Reproduction Studies

Reproduction studies have been performed in rats at oral doses up to 280 mg/kg/day (about 68 times an oral human dose of 40 mg on a body surface area basis) and in rabbits at oral doses up to 86 mg/kg/day (about 42 times an oral human dose of 40 mg on a body surface area basis) and have revealed no evidence of impaired fertility or harm to the fetus due to esomeprazole [see <u>Use in Specific Populations (8.1)</u>].

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 17 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 Healing of Erosive Esophagitis

The healing rates of esomeprazole magnesium delayed-release capsules 40 mg, esomeprazole magnesium delayed-release capsules 20 mg, and omeprazole 20 mg (the approved dose for this indication) were evaluated in patients with endoscopically diagnosed erosive esophagitis in focur multicenter, double-blind, randomized studies. The healing rates at Weeks 4 and 8 were evaluated and are shown in the Table 9:

Table 9:Erosive Esophagitis Healing Rate (Life-Table Analysis)

Study	No. of Patients	Treatment Groups	Week 4	Week 8	Significant Level ¹
1	588	Esomeprazole Magnesium	68.7%	90.6%	N.S.
	588	Delayed-Release Capsules 20 mg	69.5%	88.3%	
		Omeprazole 20 mg			
2	654	Esomeprazole Magnesium	75.9%	94.1%	p < 0.001
	656	Delayed-Release Capsules 40 mg	70.5%	89.9%	p < 0.05
	650	Esomeprazole Magnesium	64.7%	86.9%	
		Delayed-Release Capsules 20 mg			

		Omeprazole 20 mg					
3	576	Esomeprazole Magnesium	71.5%	92.2%	N.S.		
	572	Delayed-Release Capsules 40 mg	68.6%	89.8%			
		Omeprazole 20 mg					
4	1,216	Esomeprazole Magnesium	81.7%	93.7%	p < 0.001		
	1,209	Delayed-Release Capsules 40 mg	68.7%	84.2%			
		Omeprazole 20 mg					
1. log-ra	^{1.} log-rank test vs. omeprazole 20 mg						

N.S. = not significant (p > 0.05).

In these same studies of patients with erosive esophagitis, sustained heartburn resolution and time to sustained heartburn resolution were evaluated and are shown in the Table 10:

Table 10: Sustained Resolution ¹of Heartburn (Erosive Esophagitis Patients)

			Cumulative Percent ² with Sustained Resolution			
Study	No. of Patients	Treatment Groups	Day 14	Day 28	Significant Leve	
1	573 555	Esomeprazole Magnesium Delayed-Release Capsules 20 mg Omeprazole 20 mg	64.3% 64.1%	72.7% 70.9%	N.S.	
2	621 620 626	Esomeprazole Magnesium Delayed-Release Capsules 40 mg Esomeprazole Magnesium Delayed-Release Capsules 20 mg Omeprazole 20 mg	64.8% 62.9% 56.5%	74.2% 70.1% 66.6%	p <0.001 N.S.	
3	568 551	Esomeprazole Magnesium Delayed-Release Capsules 40 mg Omeprazole 20 mg	65.4% 65.5%	73.9% 73.1%	N.S.	
4	1,187 1,188	Esomeprazole Magnesium Delayed-Release Capsules 40 mg Esomeprazole Magnesium Delayed-Release Capsules 20 mg	67.6% 62.5%	75.1% 70.8%	p <0.001	

I Defined as the cumulative proportion of patients who have reached the start of

sustained resolution. ^{3.} log-rank test vs. omeprazole 20 mg.

N.S. = not significant (p > 0.05).

In these four studies, the range of median days to the start of sustained resolution (defined as 7 consecutive days with no heartburn) was 5 days for esomeprazole magnesium delayed-release capsules 40 mg, 7 to 8 days for esomeprazole magnesium delayed-release capsules20 mg and 7 to 9 days for omeprazole 20 mg.

There are no comparisons of 40 mg of esomeprazole magnesium delayed-release capsules with 40 mg of omeprazole in clinical trials assessing either healing or symptomatic relief of erosive esophagitis.

Long-Term Maintenance of Healing of Erosive Esophagitis

Two multicenter, randomized, double-blind placebo-controlled 4-arm trials were conducted in patients with endoscopically confirmed, healed erosive esophagitis to evaluate esomeprazole magnesium delayed-release capsules 40 mg (n=174), 20 mg (n=180), 10 mg (n=168) or placebo (n=171) once daily over six months of treatment.

No additional clinical benefit was seen with esomeprazole magnesium delayed-release capsules 40 mg over esomeprazole magnesium delayed-release capsules 20 mg.

The percentages of patients that maintained healing of erosive esophagitis at the various time points are shown in the Figures 2 and 3:

Figure 2: Maintenance of Healing Rates by Month (Study 177)

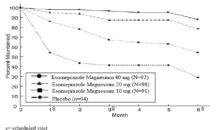
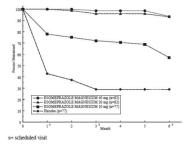


Figure 3:Maintenance of Healing Rates by Month (Study 178)



Patients remained in remission significantly longer and the number of recurrences of erosive esophagitis was significantly less in patients treated with Esomeprazole Magnesium Delayed-Release Capsules compared to placebo.

In both studies, the proportion of patients on esomeprazole magnesium delayed-release capsuleswho remained in remission and were free of heartburn and other GERD symptoms was well differentiated from placebo.

In a third multicenter open label study of 808 patients treated for 12 months with esomeprazole magnesium delayed-release capsules 40 mg, the percentage of patients that maintained healing of erosive esophagitis was 93.7% for six months and 89.4% for one year.

14.2 Symptomatic Gastroesophageal Reflux Disease (GERD)

Two multicenter, randomized, double-blind, placebo-controlled studies were conducted in a total of 717 patients comparing four weeks of treatment with esomeprazole magnesium delayed-release capsules 20 mg or 40 mg once daily versus placebo for resolution of GERD symptoms. Patients had \geq 6-month history of heartburn episodes, no erosive esophagitis by endoscopy, and heartburn on at least four of the seven days immediately preceding randomization.

The percentage of patients that were symptom-free of heartburn was significantly higher in the esomeprazole magnesium delayed-release capsules groups compared to placebo at all follow-up visits (Weeks 1, 2, and 4).

No additional clinical benefit was seen with esomeprazole magnesium delayed-release capsules 40 mg over esomeprazole magnesium delayed-release capsules 20 mg. The percent of patients symptom-free of heartburn by day are shown in the Figures 4

Figure 4: Percent of Patients Symptom-Free of Heartburn by Day (Study 225)

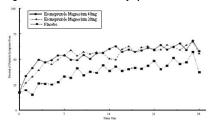
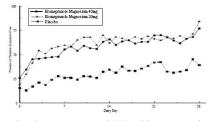


Figure 5: Percent of Patients Symptom-Free of Heartburn by Day (Study 226)



In three European symptomatic GERD trials, esomeprazole magnesium delayed-release capsules 20 mg and 40 mg and omeprazole 20 mg were evaluated. No significant treatment related differences were seen.

14.3 Pediatric Gastroesophageal Reflux Disease (GERD)

1 to 11 Years of Age

and 5

In a multicenter, parallel-group study, 109 pediatric patients with a history of endoscopically-proven GERD (1 to 11 years of age; 53 female; 89 Caucasian, 19 Black, 1 Other) were treated with esomeprazole magnesium delayed-release capsules once daily for up to 8 weeks to evaluate safety and tolerability. Dosing by patient weight was as follows:

weight < 20 kg: once daily treatment with esome prazole magnesium delayed-release capsules 5 mg or 10 mg $\,$

weight \geq 20 kg: once daily treatment with esome prazole magnesium delayed-release capsules 10 mg or 20 mg

Patients were endoscopically characterized as to the presence or absence of erosive esophagitis.

Of the 109 patients, 53 had erosive esophagitis at baseline (51 had mild, 1 moderate, and 1 severe esophagitis). Although most of the patients who had a follow up endoscopy at the end of 8 weeks of treatment healed, spontaneous healing cannot be ruled out because these patients had low grade erosive esophagitis prior to treatment, and the trial did not include a concomitant control.

12 to 17 Years of Age

In a multicenter, randomized, double-blind, parallel-group study, 149 adolescent patients (12 to 17 years of age; 89 female; 124 Caucasian, 15 Black, 10 Other) with clinically diagnosed GERD were treated with either esomeprazole magnesium delayed-release capsules 20 mg or esomeprazole magnesium delayed-release capsules 40 mg once daily for up to 8 weeks to evaluate safety and tolerability. Patients were not endoscopically characterized as to the presence or absence of erosive esophagitis.

14.4 Risk Reduction of NSAID-Associated Gastric Ulcer

Two multicenter, double-blind, placebo-controlled studies were conducted in patients at risk of developing gastric and/or duodenal ulcers associated with continuous use of nonselective and COX-2 selective NSAIDs. A total of 1,429 patients were randomized across the 2 studies. Patients ranged in age from 19 to 89 (median age 66.0 years) with 70.7% female, 29.3% male, 82.9% Caucasian, 55% Black, 3.7% Asian, and 8.0% Others. At baseline, the patients in these studies were endoscopically confirmed not to have ulcers but were determined to be at risk for ulcer occurrence due to their age (≥60 years) and/or history of a documented gastric or duodenal ulcer within the past 5 years. Patients receiving NSAIDs and treated with esomeprazole magnesium delayed-release capsules 20 mg or 40 mg once-a-day experienced significant reduction in gastric ulcer occurrences relative to placebo treatment at 26 weeks. See Table 11. No additional benefit was seen with esomeprazole magnesium delayed-release capsules 40 mg over esomeprazole magnesium delayed-release capsules 20 mg. These studies did not demonstrate significant reduction in the development of NSAID-associated duodenal ulcer due to the low incidence.

Table 11:Cumulative percentage of patients without gastric ulcers at 26 weeks:

Study	No. of Patients	Treatment Group	% of Patients Remaining Gastric Ulcer Free ¹
1	191 194 184	Esomeprazole Magnesium Delayed-Release Capsules 20 mg Esomeprazole Magnesium Delayed-Release Capsules 40 mg Placebo	95.4 96.7 88.2
2	267 271 257	Esomeprazole Magnesium Delayed-Release Capsules 20 mg Esomeprazole Magnesium Delayed-Release Capsules 40 mg Placebo	94.7 95.3 83.3

^{1.} %= Life Table Estimate. Significant difference from placebo (p<0.01).

14.5 Helicobacter pylori (H. pylori) Eradication in Patients with Duodenal Ulcer Disease

Triple Therapy (Esomeprazole magnesium delayed-release capsules/amoxicillin/clarithromycin): Two multicenter, randomized, double-blind studies were conducted using a 10 day treatment regimen. The first study (191) compared Esomeprazole magnesium delayed-release capsules 40 mg once daily in combination with amoxicillin 1,000 mg twice daily and clarithromycin 500 mg twice daily to Esomeprazole magnesium delayed-release capsules 40 mg once daily plus clarithromycin 500 mg twice daily. The second study (193) compared Esomeprazole magnesium delayed-release capsules 40 mg once daily in combination with amoxicillin 1,000 mg twice daily and clarithromycin 500 mg twice daily to esomeprazole magnesium delayed-release capsules 40 mg once daily to esomeprazole magnesium delayed-release capsules 40 mg once daily. Under gradieristic rater defined as at least delayed-release capsules 40 mg once daily. H. pylori eradication rates, defined as at least two negative tests and no positive tests from CLOtest [®], histology and/or culture, at 4 weeks post-therapy were significantly higher in the esomeprazole magnesium delayed-release capsules plus amoxicillin and clarithromycin group than in the esomeprazole magnesium delayed-release capsules plus clarithromycin or esomeprazole magnesium delayed-release capsules alone group. The results are shown in Table 12:

Table 12:H. pylori Eradication Rates at 4 Weeks after 10 Day Treatment Regimen % of Patients Cured [95% Confidence Interval] (Number of Patients)

	(
Study	Treatment Group	Per-Protocol ¹	Intent-to-Treat ²
191	Esomeprazole Magnesium Delayed-Release Capsules plus amoxicillin and clarithromycin	84% ³ [78, 89] (n=196)	77% ³ [71, 82] (n=233)
	Esomeprazole Magnesium Delayed-Release Capsules plus clarithromycin	55% [48, 62] (n=187)	52% [45, 59] (n=215)
193	Esomeprazole Magnesium Delayed-Release Capsules plus amoxicillin and clarithromycin	85% ⁴ [74, 93] (n=67)	78% ⁴ [67, 87] (n=74)
	Esomeprazole Magnesium Delayed-Release Capsules	5% [0, 23] (n=22)	4% [0, 21] (n=24)

1. Patients were included in the analysis if they had H. pylori infection The provided in the analysis in the proof is the proof in the proof in the proof in the proof is the proof of the proof is the proof of the proof is the proof of the proof o Patients were included in the analysis if they had documented H. pylori

infection at baseline, had at least one documented duodenal uker at baseline, or had a documented history of duodenal uker disease, and took at least one dose of study medication. All dropouts were included as not *H. pylori* eradicated.

 3 p < 0.05 compared to Esomeprazole magnesium delayed-release capsules plus clarithromycin.

 $\frac{4}{2}$ p < 0.05 compared to Esomeprazole magnesium delayed-release capsules alone.

The percentage of patients with a healed baseline duodenal ulcer by 4 weeks after the 10 day treatment regimen in the esomeprazole magnesium delayed-release capsules plus amoxicillin and clarithromycin group was 75% (n=156) and 57% (n=60) respectively, in the 191 and 193 studies (per-protocol analysis).

14.6 Pathological Hypersecretory Conditions Including Zollinger-Ellison Syndrome

In a multicenter, open-label dose-escalation study of 21 patients (15 males and 6 females, 18 Caucasian and 3 Black, mean age of 55.5 years) with pathological hypersecretory conditions, such as Zollinger-Ellison Syndrome, esomeprazole hypersecretory conditions, such as Zollinger-Ellison Syndrome, esomeprazole magnesium delayed-release capsules significantly inhibited gastric acid secretion. Initial dose was 40 mg twice daily in 19/21 patients and 80 mg twice daily in 2/21 patients. Total daily doses ranging from 80 mg to 240 mg for 12 months maintained gastric acid output below the target levels of 10 mEq/h in patients without prior gastric acid-reducing surgery and below 5 mEq/h in patients with prior gastric acid-reducing surgery. At the Month 12 final visit, 18/20 (90%) patients had Basal Acid Output (BAO) under satisfactory control (median BAO = 0.17 mmo/hr). Of the 18 patients evaluated with a starting dose of 40 mg twice daily, 13 (72%) had their BAO controlled with the original dosing regimen at the final visit. See Table 13.

Table 13:Adequate Acid Suppression at Final Visit by Dose Regimen

Esomeprazole Magnesium Delayed-Release Capsules dose at the Month 12 visit	BAO under adequate control at the Month 12 visit (N=20) ¹
40 mg twice daily	13/15
80 mg twice daily	4/4
80 mg three times daily	1/1
 One patient was not evaluated 	

16 HOW SUPPLIED/STORAGE AND HANDLING

Product: 50090-3031

NDC: 50090-3031-1 90 CAPSULE, DELAYED RELEASE in a BOTTLE NDC: 50090-3031-0 30 CAPSULE, DELAYED RELEASE in a BOTTLE Product: 50090-3065

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide). Adverse Reactions

Advise patients to report to their healthcare provider if they experience any signs or symptoms consistent with:

- Hypersensitivity Reactions [see Contraindications (4)]
- Acute Tubulointerstitial Nephritis [see Warnings and Precautions (5.2)]
 Clostridium difficile-Associated Diarrhea [see Warnings and Precautions (5.3)]
- Bone Fracture <u>[see Warnings and Precaution (5.4)]</u> Cutaneous and Systemic Lupus Erythematosus <u>[see Warnings and Precautions (</u>
- 5.5)1 Cyanocobalamin (Vitamin B-12) Deficiency *[see Warnings and Precautions (5.7)]*
- Hypomagnesemia [see Warnings and Precautions (5.8)]

Drug Interactions

Advise patients to let you know if they are taking, or begin taking, other medications, because esomeprazole magnesium delayed-release capsules can interfere with antiretroviral drugs and drugs that are affected by gastric pH changes [see Drug Interactions (7.1)]

Administration

- Let patients know that antacids may be used while taking esomeprazole magnesium
- Advise patients to take esomeprazole magnesium delayed-release capsules.
 Advise patients to take esomeprazole magnesium delayed-release capsules at least one hour before a meal.
- · For patients who are prescribed esomeprazole magnesium delayed-release capsules, advise them not to chew or crush the capsules
- Advise patients that, if they open esomeprazole magnesium delayed-release capsules to mix the granules with food, the granules should only be mixed with applesauce. Use with other foods has not been evaluated and is not recommended.
- · For patients who are advised to open the esomeprazole magnesium delayed-release capsules before taking instruct them in the proper technique for administration <u>[see</u> <u>Dosage and Administration (2)]</u> and tell them to follow the dosing instructions in the PATIENT INFORMATION insert included in the package. Instruct patients to rinse the syringe with water after each use.

BHORMA

Manufactured by:

TORRENT PHARMACEUTICALS LTD., INDIA.

For:

TORRENT PHARMA INC., Basking Ridge, NJ 07920. 8081005

MEDICATION GUIDE

Esomeprazole Magnesium (ee so MEP ra zol mag NEE zee um) Delayed-Release Capsules, USP

Read the Medication Guide that comes with esomeprazole magnesium delayed-release capsules before you start taking esomeprazole magnesium delayed-release capsules and each time you get a refill. There may be new information. This information does not take the place of talking with your doctor about your medical condition or your treatment.

Revised: 12/2020

What is the most important information I should know about Esomeprazole Magnesium Delayed-Release Capsules?

Esomeprazole magnesium delayed-release capsules may help your acid-related symptoms, but you could still have serious stomach problems. Talk with your doctor.

Esomeprazole Magnesium Delayed-Release Capsules can cause serious side effects, including

- A type of kidney problem (acute tubulointerstitial nephritis) . Some people who take proton pump inhibitor (PPI) medicines, including esomeprazole magnesium delayed-release capsules, may develop a kidney problem called acute tubulointerstitial nephritis that can happen at any time during treatment with esomeprazole magnesium delayed-release capsules. Call your doctor if you have a decrease in the amount that you urinate or if you have blood in your urine.
- Diarrhea Esomeprazole magnesium delayed-release 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 PPI 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 esomeprazole magnesium delayed-release 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 esomeprazole magnesium delayed-release capsules.
- Certain types of lupus erythematosus . Lupus erythematosus is an autoimmune disorder (the body's immune cells attack other cells or organs in the body). Some people who take PPI medicines, including esomeprazole magnesium delayed-release capsules, may develop certain types of lupus erythematosus or have worsening of the lupus they already have. Call your doctor right away if you have new or worsening joint pain or a rash on your cheeks or arms that gets worse in the sun.

Esomeprazole magnesium delayed-release capsulescan have other serious side effects See "What are the possible side effects of esomeprazole magnesium delayed-release capsules?"

What are Esomeprazole magnesium delayed-release capsules?

Esomeprazole magnesium delayed-release capsules are a prescription medicine called a proton pump inhibitor (PPI). Esomeprazole magnesium delayed-release capsules reduce the amount of acid in your stomach.

Esomeprazole Magnesium Delayed-Release Capsules are used in adults:

- for 4 to 8 weeks to treat the symptoms of gastroesophageal reflux disease (GERD).
 Esomeprazole magnesium delayed-release capsules may also be prescribed to heal acid-related damage to the lining of the esophagus (erosive esophagitis), and to help 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 6 months to reduce the risk of stomach ulcers in some people taking pain
- medicines called non-steroidal anti-inflammatory drugs (NSAIDS). to treat patients with a stomach infection (*Helicobacter pylori*), along with the
- antibiotics amoxicillin and clarithromycin.
- for the long-term treatment of conditions where your stomach makes too much acid, including Zollinger-Ellison Syndrome. Zollinger-Ellison Syndrome is a rare condition in which the stomach produces a more than normal amount of acid.

For children and adolescents 1 year to 17 years of age, esomeprazole magnesium delayed-release capsules may be prescribed for up to 8 weeks for short-term treatment of GERD

Who should not take Esomeprazole Magnesium Delayed-Release Capsules?

Do not take esomeprazole magnesium delayed-release capsules if you: are allergic to esomeprazole magnesium or any of the ingredients in esomeprazole

- magnesium delayed-release capsules. See the end of this Medication Guide for a plete list of ingredients in esomeprazole magnesium delayed-release capsules.
- are allergic to any other PPI medicine.

What should I tell my doctor before taking Esomeprazole Magnesium Delayed-Release Capsules?

Before you take Esomeprazole Magnesium Delayed-Release Capsules, tell

- have been told that you have low magnesium levels in your blood
- have liver problem; • are pregnant or plan to become pregnant. It is not known if esomeprazole

magnesium delayed-release capsules can harm your unborn baby.

 are breastfeeding or planning to breastfeed. esomeprazole magnesium delayed-release capsules may pass into your breast milk. Talk to your doctor about the best way to feed your baby if you take esomeprazole magnesium delayed-release capsules.

Tell your doctor about all of the medicines you take, including prescription and non-prescription drugs, vitamins and herbal supplements. esomeprazole magnesium delayed-release capsules may affect how other medicines work, and other medicines may affect how esomeprazole magnesium delayed-release capsules work.

- Especially tell your doctor if you take:
- warfarin (Coumadin, Jantoven)
 ketoconazole (Nizoral)
- voriconazole (Vfend)
- atazanavir (Reyataz)
- nelfinavir (Viracept)
- saquinavir (Fortovase)
- products that contain iron
- digoxin (Lanoxin) St. John's Wort (Hypericum perforatum)
- Rifampin (Rimactane, Rifater, Rifamate)
- cilostazol (Pletal)
- diazepam (Valium) tacrolimus (Prograf)
- erlotinib (Tarceva)
- methotrexate
- clopidogrel (Plavix)
- mycophenolate mofetil (Cellcept)
- How should I take Esomeprazole magnesium delayed-release capsules? Take esomeprazole magnesium delayed-release capsules exactly as prescribed by your doctor.
- · Do not change your dose or stop esomeprazole magnesium delayed-release
- capsules without talking to your doctor.
 Take esomeprazole magnesium delayed-release capsules at least 1 hour before a meal.
- Swallow esomeprazole magnesium delayed-release capsules whole. Never chew or
- If you have difficulty swallowing esomeprazole magnesium delayed-release capsules.
 If you have difficulty swallowing esomeprazole magnesium delayed-release capsules, you may open the capsule and empty the contents into a tablespoon of applesauce. Do not crush or chew the granules. Be sure to swallow the applesauce right away. Do not store it for later use. If you forget to take a dose of esomeprazole magnesium delayed-release capsules,
- take it as soon as you remember. If it is almost time for your next dose, do not take the missed dose. Take the next dose on time. Do not take a double dose to make up for a missed dose.
- If you take too many esomeprazole magnesium delayed-release capsules, call your doctor or local poison control center right away, or go to the nearest hospital emergency room.
- See the "Instructions for Use" at the end of this Medication Guide for instructions how to take esomeprazole magnesium delayed-release capsules, through a nasogastric tube or gastric tube.

What are the possible side effects of Esomeprazole magnesium delayedrelease capsules?

Esomeprazole Magnesium Delayed-Release Capsules can cause serious side See "What is the most important information I should know about

- Esomeprazole Magnesium Delayed-Release Capsules?'
- Esomeprazole Magnesium Delayed-Kelease Capsules?" Vitamin B-12 deficiency. Esomeprazole magnesium delayed-release capsules reduce the amount of acid in your stomach. Stomach acid is needed to absorb vitamin B-12 properly. Talk with your doctor about the possibility of vitamin B-12 deficiency if you have been on esomeprazole magnesium delayed-release
- Low magnesium levels in your body. Low magnesium carbon become people who take a PPI 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 esomeprazole magnesium delayed-release capsules or during treatment if you will

be taking esomeprazole magnesium delayed-release capsules for a long period of time. • Stomach growths (fundic gland polyps). People who take PPI medicines for a long time have an increased risk of developing a certain type of stomach growths called fundic gland polyps, especially after taking PPI medicines for more than 1 year.

The most common side effects with esomeprazole magnesium delayed-release capsules may include:

- headache
- diarrhea
- nausea • gas
- abdominal pain
- constipation
- dry mouth
 drowsiness

Other side effects:

Serious allergic reactions. Tell your doctor if you get any of the following symptoms with esomeprazole magnesium delayed-release capsules:

- rash
- face swelling
- throat tightness difficulty breathing

Your doctor may stop esomeprazole magnesium delayed-release capsules if these symptoms happen

Tell your doctor if you have any side effects that bother you or that do not go away. These are not all the possible side effects with esomeprazole magnesium delayed-release capsules.

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 Esomeprazole Magnesium Delayed-Release Capsules?

- Store esomeprazole magnesium delayed-release capsules at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F).
- · Keep the container of esomeprazole magnesium delayed-release capsules closed tightly.

Keep Esomeprazole Magnesium Delayed-Release Capsules and all medicines out of the reach of children.

General information about Esomeprazole Magnesium Delayed-Release Capsules

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use esomeprazole magnesium delayed-release capsules for a condition for which it was not prescribed. Do not give esomeprazole magnesium delayed-release capsules to other people, even if they have the same symptoms you have. It may harm them.

This Medication Guide summarizes the most important information about esomeprazole magnesium delayed-release capsules. If you would like more information, talk with your doctor. You can ask your pharmacist or doctor for information about esomeprazole magnesium delayed-release capsules that is written for health professionals.

For more information, call 1-800-912-9561.

What are the ingredients in Esomeprazole Magnesium Delayed-Release

Capsules?

Active ingredient: esomeprazole magnesium USP

Inactive ingredients in Esomeprazole Magnesium Delayed-Release Capsules (including the capsule shells):

20mg: D&C Red 28, ethyl cellulose, FD & C Red 40, gelatin, iron oxide yellow, magnesium oxide (light), magnesium stearate, methacrylic acid co-polymer, mono and diglycerides, polysorbate 80, povidone (K90D), sodium lauryl sulfate, sugar spheres, talc, titanium dioxide and triethyl citrate.

40mg: D&C Red 28, ethyl cellulose, FD & C Red 40, gelatin, magnesium oxide (light), magnesium stearate, methacrylic acid co-polymer, mono and diglycerides, polysorbate 80, povidone (K90D), sodium lauryl sulfate, sugar spheres, talc, titanium dioxide and triethyl citrate.

Capsules have pharmaceutical grade printing ink that contains black iron oxide, potassium hydroxide, povidone, propylene glycol, shellac, sodium hydroxide and titanium dioxide.

Instructions for Use

For instructions on taking Delayed-Release Capsules, see the section of this leaflet called "How should I take Esomeprazole magnesium delayed-release capsules?"

Esomeprazole magnesium delayed-release capsules may be given through a nasogastric tube (NG tube) or gastric tube, as prescribed by your doctor. Follow the instructions below

- Esomeprazole magnesium delayed-release capsules:
- Open the capsule and empty the granules into a 60 mL catheter tipped syringe. Mix with 50 mL of water. Use only a catheter tipped syringe to give esomeprazole magnesium delayed-release capsules through a NG tube.
 Replace the plunger and shake the syringe well for 15 seconds. Hold the syringe with
- the tip up and check for granules in the tip.
- Give the medicine right away.
 Do not give the granules if they have dissolved or have broken into pieces.
- Attack the syringe to the NG tube. Give the medicine in the syringe through the NG tube into the stomach.
- After giving the granules, flush the NG tube with more water.

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



Manufactured by: TORRENT PHARMACEUTICALS LTD., INDIA. For:

TORRENT PHARMA INC., Basking Ridge, NJ 07920. 8081006

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ESOMEPRAZOLE MAGNESIUM



ESOMEPRAZOLE MAGNESIUM



ESOMEPRAZOLE	MAGNESIUM		
esomeprazole magnesiu	um capsule, delayed releas	e	
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Product Type Route of Admin Active Ingred ESOMEPRAZOLE / UNIN N3PA6559FT) Inactive Ingre ETHYLCELLULOSE GLYCERYL MONO: GLYCERYL STEAR MAGNESIUM OXID MAGNESIUM OXID MAGNESIUM STEA METHACRYLIC AC POLYSORATE 86 POTASSIUM HYDR POVIDONE K30 (UNIN: 46 SODIUM HYDROXI SUCROSE (UNIN: 47 SODIUM HYDROXID TALC (UNIN: 75EV7) TITANIUM DIOXID TRIETHYL CITRAT Product Charr Color Shape Flavor	istration ient/Activ I MAGNESIUM Addients is, UNSPECIF IFIED (UNII: 3A3 WATE SE (UNII: 3A3 WATE SE (UNII: 3A3 WATE (UNII: 602P IUNII: 602P IUNII: 602P IUNII: 602P IUNII: 602P IUNII: 602P IUNII: 602P IUNII: 602P IUNII: 50166HJ IUNII: 602P IUNII: 50166HJ IUNII: 50164HJ IUNII: 5016 IUNII: 5016 IUNII: 515D E (UNII: 529 AUTORITICA IUNII: 5016 IUNII: 529 IUNII: 529	DRUG DRUG DRUG DRUG ORAL ORAL ORAL ORAL ORAL ORAL DRUG DRUG DRUG DRUG DRUG DRUG DRUG DRUG	(ESOMEPRAZ O Iame 4B)	urce) LE - Si Si Si	254) Baa Str ESOMEPF	sis of ength AZOLE	Strength 20 mg Strength ano score 14mm
Product Type Route of Admin Active Ingred ESOMEPRAZOLE / UNIN N3PA6559FT) Inactive Ingre ETHYLCELLULOSE GLYCERYL MONO: GLYCERYL STEAR MAGNESIUM OXID MAGNESIUM OXID MAGNESIUM STEA METHACRYLIC AC POLYSORATE 86 POTASSIUM HYDR POVIDONE K30 (UNIN: 46 SODIUM HYDROXI SUCROSE (UNIN: 47 SODIUM HYDROXID TALC (UNIN: 75EV7) TITANIUM DIOXID TRIETHYL CITRAT Product Charr Color Shape Flavor	istration ient/Activ I MAGNESIUM Addients is, UNSPECIF IFIED (UNII: 3A3 WATE SE (UNII: 3A3 WATE SE (UNII: 3A3 WATE (UNII: 602P IUNII: 602P IUNII: 602P IUNII: 602P IUNII: 602P IUNII: 602P IUNII: 602P IUNII: 602P IUNII: 50166HJ IUNII: 602P IUNII: 50166HJ IUNII: 50164HJ IUNII: 5016 IUNII: 5016 IUNII: 515D E (UNII: 529 AUTORITICA IUNII: 5016 IUNII: 529 IUNII: 529	DRUG DRUG DRUG DRUG ORAL ORAL ORAL ORAL ORAL ORAL DRUG DRUG DRUG DRUG DRUG DRUG DRUG DRUG	(ESOMEPRAZ O Iame 4B)	LE - Si Si Si In	LS4) Bas Str ESOMEPF ESOMEPF	a contraction of the second seco	Strength 20 mg strength s
Product Type Route of Admin Active Ingred ESOMEPRAZOLE E UNIENSPACESSIFT) Inactive Ingred ETHYLCELLULOSE GLYCERVL MONO: MAGNESIUM STEL MAGNESIUM STEL MAGNESIUM STEL POVIDONE, UNSPEC GLYCERVL STEAR MAGNESIUM STEL POVIDONE, UNSPEC GLYCERVL STEAR MAGNESIUM STEL POVIDONE, UNSPEC SOLUME TSEVID POVIDONE, UNSPEC POVIDONE, UNSPEC SOLUME TSEVID SOLUME	istration ient/Activ I MAGNESIUM Addients addients	DRUG DRUG DRUG DRUG DRUG DRUG DRAL DRAL DRAL DRAL DRAL DRAL DRAL DRAL	TION REPRAZ O (ESOMEPRAZ O Iame 4B))) tion	LE - Si Si Si In	254) Baa Str ESOMEPF	a contraction of the second seco	Strength 20 mg Strength ano score 14mm
Product Type Route of Admin Active Ingred UNIE-N3PA6559FT) Inactive Ingred ETHYLCELLULOSE GLATIN, UNSPEC GLYCERVL STOAD MAGNESIUM STEP OVIDORE, UNSP COLOF Shape Flavor Contains Packaging # tem Code 1 MC:55090-	istration ient/Activ I MAGNESIUM Adients i, UNSPECIF IFIED (UNII: STEARATE ((UNII: 5028 UNII: 6028 UNII: 6028 UNII	DRUG DRUG ORA	TION Kion Not a	LE	254) Baa Str ESOMEPF ESOMEPF	AZOLE	Strength 20 mg 20 mg Strength S
Product Type Route of Admin Active Ingred UNII: N3PA6559FT) Inactive Ingred ESOMEPRAZOLE / UNII: N3PA6559FT) Inactive Ingre ETHYLCELLULOSS GLYCERYL STEAM MAGNESIUM OXID MAGNESIUM OXID MAGNESIUM STEA MAGNESIUM STEA POTASSIUM TYDRXX UNSPEC SHELLAC (UNII: 46 SODIUM HYDRXX SUGROSE (UNII: CI SHELLAC (UNII: 75EV) TITANIUM DIOXID SUGROSE (UNII: CI TALC (UNII: 75EV) TITANIUM DIOXID SUGROSE (UNII: CI TALC (UNII: 75EV) TITANIUM DIOXID Shape Flavor Contains Packaging # Item Code 1 NDC:50090-	istration ient/Activ I MAGNESIUM Adients i, UNSPECIF IFIED (UNII: STEARATE ((UNII: 5028 UNII: 6028 UNII: 6028 UNII	DRUG DRUG ORAL ORAL ORAL ORAL ORAL ORAL ORAL ORAL	TION Kion Not a	LE	254) Baa Str ESOMEPF ESOMEPF	AZOLE	Strength 20 mg 20 mg Strength S
Product Type Route of Admin Active Ingred UNII:N3PA6559FT) Inactive Ingred ESOMEPRAZOLE / UNII:N3PA6559FT) Inactive Ingre ETHYLCELLULOSS GLYCERYL STEAR MACNESIUM OXID MAGNESIUM STEA MACNESIUM OXID MAGNESIUM STEA POTASSIUM TYDROX UNETHACRYL (UNII: 46 SODIUM HYDROX SUGROSE (UNII: C1 SHELLAC (UNII: 46 SODIUM HYDROX SUGROSE (UNII: C1 FALC (UNII: 75EV7) TITANUM DIOXID TALC (UNII: 75EV7) TITANUM DIOXID Shape Flavor Contains Packaging # Item Code 1 NDC:50090- 3 NDC:50090-	istration ient/Activ I MAGNESIUM Adients i, UNSPECIF IFIED (UNII: STEARATE ((UNII: 5028 UNII: 6028 UNII: 6028 UNII	DRUG DRUG ORA	TION Kion Not a	LE	254) Baa Str ESOMEPF ESOMEPF	AZOLE	Strength 20 mg 20 mg Strength S
Product Type Route of Admin Active Ingred Inactive Ingred Inactive Ingred GELATIN, UNSPEC GELATIN, UNS	istration ient/Activ I MAGNESIUM Adients i, UNSPECIF IFIED (UNII: STEARATE ((TTE SE (UNII: STEARATE (UNII: GOUDE (UNII: 502 III: ROH6H/III: GOUDE (UNII: 529 III: ROH6H/III: CAPSULE (ha 30 in 1 B0TT Combination 90 in 1 B0TT Informa	DRUG DRUG DRUG DRUG ORAL ORAL ORAL ORAL ORAL ORAL ORAL ORAL	(ESOMEPRAZ O (ESOMEPRAZ O 4B) 4B) 5 5 5 5 5 5 5 5 5 5 5 5 5	LE - Si Si Si In 10/19/ Uluct 06/16/	core ze uprint Code	is of ength AZOLE	Strength 20 mg Strength
Product Type Route of Admin Active Ingred UNIIN3PA6559FT) Inactive Ingred ESOMEPRAZOLE / UNIIN3PA6559FT) Inactive Ingre ETHYLCELLULOSS GUTCERVL MONO; GUTCERVL STEAM MACNESIUM OXID MACNESIUM MACNESIUM OXID MACNESIUM OXID MACNESIUM OXID MACNESIUM M	istration ient/Activ I MAGNESIUM Adients i, UNSPECIF IFIED (UNII: STEARATE ((TTE SE (UNII: STEARATE (UNII: GOUDE (UNII: 502 III: ROH6H/III: GOUDE (UNII: 529 III: ROH6H/III: CAPSULE (ha 30 in 1 B0TT Combination 90 in 1 B0TT Informa	DRUG DRUG DRUG DRUG ORAL ORAL ORAL ORAL ORAL ORAL DRUG ORAL ING DRUG DRUG DRUG DRUG DRUG DRUG DRUG DRU	(ESOMEPRAZ O (ESOMEPRAZ O 4B) 4B) 5 5 5 5 5 5 5 5 5 5 5 5 5	LE - Si Si Si In 10/19/ Uluct 06/16/	2015 keting Start Date keting Start Date	is of ength AZOLE	Strength 20 mg 22 mg Strength Str

Labeler - A-S Medication Solutions (830016429)

Establishment

 Name
 Address
 ID/FEI
 Business Operations

 A-S Medication Solutions
 830016429
 RELABEL(50090-3031, 50090-3065), REPACK(50090-3031)

Revised: 6/2021

A-S Medication Solutions