# 50x150

## Omeprazole Sodium for Injection 40 ma

## OMI.IFT-40

For LV. Use Only Lyophilized Powder Single Use Vial

### Composition:

Each vial contains: Omeprazole Sodium BP Eq. to Omeprazole (Sterile Lyophilized Powder)

### DIRECTION FOR USE :

Dissolve the contents in Sodium Chloride Injection BP (0.9% W/V) The re-constituted solution should be used immediately after the preparation

### PRODUCT DESCRIPTION

Omeprazole Lyophilized Powder for Injection is a white to off-white lyophilized powder in a coloriess, clear vial. The powder dissolves completely and appears as a clear, coloriess solution after reconstitution.

40 ma

### PHARMACODYNAMICS

unextance is a proton pump inhibitor that belongs to a class of antisecteritor compounds, the usabilitative beamized. Is suppresses gradient call severino apportion inhibitor of the HTM. ATPase enzyme system at the severitory surface of the gastic partial cell. Because this surgrade system is regarded as the add (proton) pump within the gastic muccos, emergrades that been characteriated as a gastic acid-pump inhibitor, it that I bloods the final step of add production. This effect is developed and deviate that the orbit bala and attributed add severitors. Omeprazole is a proton pump inhibitor that belongs to a class of antisecretory compounds,

### PHARMACOKINETICS

Omeprazole's apparent volume of distribution is approximately 0.3 Lkg in healthy subjects and in patients with renal insufficiency. The volume of distribution is slightly decreased in elderly patients and in patients with hepatic insufficiency. Omegrazole is hip/ly protein bound with about 95% bound to plasma proteins

Omeorazole is completely metabolized mainly in the liver via the cytochrome P450 system (CYP A major part of its metabolism is dependent on CYP2C19 (S-mephenytoin hydroxytase) which is responsible for the formation of hydroxyomeprazole, its major metabolite in the plasma. The average hall-file after IV administration is approximately 40 minutes and total plasma clearance is 0.3 to 0.6 L/min

About 80% of the metabolites are excreted in the urine and the remaining metabolites are seen in the feces. Patients with impaired liver function have increased elimination half-life; however, omeprazole has not shown any accumulation with once daily oral dosing.

### USES / INDICATIONS

· For the short term treatment of the following conditions when oral medication is not feasible: o Zollinger-Elison Syndrome o Gastroesophageal Refux Disease (GERD) uodenal ulcer o Gastric ulcer

o Ulcerative esophagitis

### DOSAGE AND ADMINISTRATION

Omeprazole should be administered only by slow intravenous (IV) injection (not less than 2.5 minutes) at a rate of no greater than 4 mL/minute

Omeprazole IV injection is NOT intended for use as IV infusion

Recommended Dose: 40 mg once daily. Patients with Zollinger-Ellison Syndrome may require a higher dose and/or several doses. Individual dosage adjustment is necessary in these patients.

- · Parenteral omeprazole should be shifted to oral omeprazole as soon as feasible. Usual
- treatment period for intravenous omeprazole is 2-3 days.
- Inspect the solution for particulate matter and discoloration before administration.
  Inspect the solution for particulate matter and discoloration before administration.
  If intravenous therapy is necessary for more than three days, dosage must be adjusted and reduced to 10 20 mg per day based on patient's response.

Preparation of Dosage Form Reconstitute powder with 10 mL of the solvent provided. No other solution should be used. Stability

Omeprazole should be used within 4 hours after reconstitution

### CONTRAINDICATIONS

· Hypersensitivity to omeprazole, other proton pump inhibitors or any component of the product. WARNINGS and PRECAUTIONS

- · Gastric malignancy should be excluded at initiation of treatment and at follow-up of gastric ulcer
- Gastritis has been reported occasionally in gastric corpus biopsies from patients on long-term
- omeprazole therapy.
  The use of acid-suppressants such as omeprazole may increase a patient's risk of
- community-acquired oneumonia DRUG INTERACTIONS

- Omeprazole is metabolized via the hepatic cytochrome P-450 2C19 enzyme and may inhibit the metabolism of some drugs metabolized by this system.
  Omeprazole may prolong the elimination of warfarin, phenytoin, diazepam, and other vitamin K
- Unitplatatione may increase managements
  Concombant administration may increase plasma concentrations of omeprazole and
  diatitrownych but no interaction is found with metionidazole and amoucil in when used for the
  reduction of H. pylori.
  demendent reduction in cyranoobalaimin absorption with
- Conflicting data suggest a dose dependent reduction in cyanocobalamin absorption with concomitant use of omegrazole.
  Omegrazole may affect the bioavailability of pH-dependent drugs such as ketoconazole.
- Itraconazole, ampicillin esters, or iron saits. Concomitant administration with omeprazole may reduce plasma levels of atazanavir Serum levels of facrolimus may increase when taken together with omeprazole.

Concomitant administration with voriconazole resulted in more than doubling of omeprazole exposure. However, dosage adjustment of omeprazole was not necessary.

### HIGH RISK GROUPS

Use in Pregnancy Omeprazole may be used in pregnant women. Epidemiological studies on omeprazole have shown no adverse effects on pregnancy or on the health of the fetus/baby.

### Use in Breastfeeding Mothers

Omeorazole is excreted in human milk. In rats, omeorazole has been shown to be excreted in milk at low concentrations. Decision should be made whether to discontinue omeprazole or breastleeding since omeprazole may cause potential serious adverse effects to the baby.

### Use in the Elderly

There is no difference in efficacy and safety observed between geriatric and younger patients. However, some elderly patients may exhibit increased sensitivity to the drug and may be at hisk for notential side effects

### Use in Childre

There is limited experience with the use of omeorazole IV in children

Use in Patients with Impaired Hepatic Function Consider dose adjustment in petients with hepatic impairment especially in those requiring protonged use since plasma half-life is increased in these patients.

Use in Patients with Impaired Renal Function No doseae adjustment is necessary in patients with impaired kidney function.

Consider does reduction in Asian patients receiving long-term oneprazole therapy for maintenance of heating of encive escophagitis. The bioavailability of omeprazole appears to be increased in these patients.

### **UNDESIRABLE FEFECTS**

Omeorazole is generally well-tolerated and most adverse reactions have been mild and transient.

Nervous System Effects: Headache, vertigo, dizziness, weakness (asthenia), pain, fatigue, malaise, paresthesia, hemifacial dysesthesia, and psychic disturbances (e.g., depression, aggression, confusion, anviely, agitation, insormia, nervousness, tremors, apathy, dream antormalities, sommidence, and halucinations) have been reported but not directly attitutable to the drug in many cases.

Gastrointestinal Effects: Constipation and diarrhea, nausea, vomiting, abdominal pain, flatulence, and acid regurgitation. Occasionally, dysphagia, abdominal swelling, irritable colon, fecal discoloration, pancreatitis (sometimes fatal), esophageal candidiasis, mucosal atrophy of the tongue, anorexia, dry mouth, dysgeusia, and tongue discoloration have been reported.

Musculoskeletal: Back pain, muscle cramps, myalgia, muscle weakness, arthralgia, joint pain, and leg pain have been occasionally reported with the use of cmeprazole.

Dermatologic and Sensitivity Reactions: Rash, severe generalized reactions (e.g., toxic Dermanogie and Sensitivity Reactabits: reast, seriet generalizet reactuits (e.g., tox), epidemain acrossis), Skivers-Schönson Syndrome, entythem anultiforme, exblaistiv dermatitis, and lichenoid eruptions. Other effects include skin inflammation, urficaria, purpura and/or petechiae, bulous eruption, anglicedema, puritisa, ledvecia, dry skin, and hyperhydrosis. Allergic reactions, including rare cases of anaphylaxis have also been reported.

Genitourinary Effects: Acute interstitial nephritis and sexual disturbances such as priaprism have been occasionally reported with the use of omeprazole. Urinary tract inflection, microscopic pyunia, urinary frequency, elevated serum creatinine concentration, proteinuria, hematuria, glycosuria, and testicular pain have also been reported but in many cases not attributed to prograzole.

Hepatic Effects: Mild and rare reports of increased serum aminotransferases (transaminases) (AST) and (ALT), y glutamyltransferase (GGT, γ-glutamyltranspeptidase, GGTP), alkaline phosphatase and bilirubin concentrations have been reported. Symptomatic liver disease including hepatocellular, cholestatic, or mixed hepatitis, jaundice, liver necrosis, hepatic failure, and hepatic encephalopathy have occurred rarely.

Respiratory Effects: Upper respiratory tract infections and cough. Epistaxis and pharyngeal pain have been reported occasionally. Other effects that were reported with combined omeprazole and carritromychin therapy were thinks, pharyngits and fu syndrome.

The use of proton pump inhibitors has been associated with an increased risk for developing cartain infections such as community-acquired pneumonia. These drugs should only be used when clearly needed using the lowest effective dose in patients with severe community-acquired pneumonia.

Cardiovascular Effects: Chest pain, angina pectoris, tachycardia, bradycardia, palpitation, elevated blood pressure, and peripheral edema have been reported occasionally.

Hematologic Effects: Leukocytosis, neutropenia, pancytopenia, agranulocytosis, anemia, hemolytic anemia, and thrombocytopenia have been reported rarely.

Other Adverse Effects: Cough, lever, tinnitus, gynecomastia, acute gout, photosensitivity, blurred vision, alopecia, sweating, taste disturbances, and otitis media.

### OVERDOSAGE AND TREATMENT

Two cases of omeprazole overdose were characterized by drowsiness, headache (possibly due to a metabolite) and tachycardia. Both patients recovered without specific treatment.

Intravenous doses of 270 mg given in a day and up to 650 mg over a three-day period in clinical trials did not show any dose-related adverse reactions. As in all cases where overdosing is suspected, treatment should be symptomatic and supportive.

Storage: Store in a cool, dry & dark place at a temperature no exceeding 25°C. Protected from light & moisture

Caution : If any foreign particle is visible in the vial after dissolving the content, Please do not use the solution

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