

# Omeprazole

## Proton Pump Inhibitor (Systemic Drug)



### Prescriber Highlights

- Used to treat gastroduodenal ulceration and prevent or treat gastric erosions caused by ulcerogenic drugs
- Omeprazole was found superior to famotidine when used to prevent exercise-induced ulceration; also found to significantly suppress gastric acid production better than famotidine
- Well tolerated in most animals

Information about this drug was adapted from *Plumb's Veterinary Drugs*. Further details and more therapeutics can be found with a subscription at [plumbsveterinarydrugs.com](http://plumbsveterinarydrugs.com)

### Uses, Indications

- Useful for treatment and/or prophylaxis of gastric and duodenal ulcers
- Used in dogs as part of a triple therapy (with clarithromycin and amoxicillin) for treatment of *Helicobacter* spp infection
- May reduce cerebrospinal fluid production in dogs
- May be useful for conditions that cause intracranial hypertension

### Contraindications, Precautions

- **Contraindications**  
Patients with hypersensitivity to omeprazole
- **Precautions**  
Patients with significantly impaired hepatic or renal function, as drug half-life may be prolonged

### Side Effects

- Well tolerated in dogs and cats at effective doses
- GI side effects (eg, anorexia, colic, vomiting, diarrhea), hematologic abnormalities, proteinuria, or CNS side effects can occur

### Drug Interactions

- May decrease drug absorption of medications requiring decreased gastric pH (eg, ampicillin, ketoconazole, iron)
- May reduce transformation of clopidogrel to active metabolite
- May alter benzodiazepine metabolism and prolong CNS effects

- May decrease oral cyanocobalamin (ie, vitamin B12) absorption
- May reduce cyclosporine metabolism
- May increase the anticoagulant effect of warfarin
- May increase digoxin bioavailability
- Serum levels may decrease when used concurrently with rifampin

### Laboratory Considerations

- May cause increased liver enzymes
- Increased serum gastrin levels may be noted early in therapy

### Monitoring

- Clinical efficacy and adverse effects

### Client Information

- Works best if given before first meal of the day
- Used to prevent stomach ulcers
- Use is usually short-term

### Dosage Forms

- Both veterinary- and human-labeled products are available:
  - Omeprazole tablets, including: 10 mg, 20 mg, 40 mg
  - Omeprazole oral suspension: 2 mg/mL

—Compiled and summarized from *Plumb's Veterinary Drugs* by Shannon Palermo, VMD