

Omeprazole

- Drug Information

Brand Names:

PriLOSEC®, Gastrogard®, UlcerGard®

Pharmacology:

Substituted benzimidazole-gastric acid pump inhibitor. 5- 10 times more potent than cimetidine in gastric acid inhibition and lasts 24 hours or longer.

Indications:

Labeled to prevent gastric ulcers in horses and also used to treat gastroduodenal ulcers and to prevent or treat gastric erosions caused by ulcerogenic drugs. Experience is limited by cost in small animals.

Contraindications:

- General

Contraindicated in patients with known sensitivity to this type of drug.

Use with caution in patients with liver and renal disease.

Use only when benefit outweighs the risk during pregnancy as safety has not been established.

- Large Animal

- Horse

Do not use in horses intended for human consumption.

GastroGard® is contraindicated in foals less than 4 weeks of age.

Interactions:

- General Interactions

Drugs that require low gastric pH may have efficacy decreased because of the increased gastric acid pH.

- Category Interactions

- Bone marrow suppressant

Additive myelosuppression may occur with other drugs that can cause bone marrow suppression.

- Hepatic enzyme inhibitor

Metabolism of other cytochrome P-450 metabolized drugs may be altered.

- Oral iron supplement

Omeprazole may increase gastric acid pH, resulting in decreased absorption of iron salts.

- Protein bound drug

May displace other highly protein bound drugs resulting in increased activity of both.

- Drug Interactions

- Ampicillin

Omeprazole may increase gastric acid pH, resulting in decreased absorption of ampicillin.

- Itraconazole

Omeprazole may increase gastric acid pH, resulting in decreased absorption of itraconazole.

- Ketoconazole

Omeprazole may increase gastric acid pH, resulting in decreased absorption of ketoconazole.

- Warfarin sodium

May decrease hepatic clearance of other drugs that use cytochrome P450 enzyme system such as warfarin enhancing effects and increased risk for toxicity.

Adverse Effects:

- General

Veterinary studies of the use of this drug are limited-Vomiting, diarrhea, nausea, flatulence and loss of appetite are possible side effects of this medication. Blood dyscrasia, proteinuria and CNS disorders are also possible.

Dosing for longer than 8 weeks is rarely recommended in humans because of the relation to gastric tumor formation in rats on chronic high dose therapy.

Dosages:

- **Small Animal**

- Dog

0.5 - 1 mg/kg by mouth once daily

- Cat

0.7 mg/kg by mouth once daily.

- **Large Animal**

- Horse

0.7 - 1.4 mg/kg by mouth once daily.

Gastrogard® - 4 mg/kg by mouth once daily for 4 weeks. For prevention or recurrence of ulcers continue for 4 additional weeks at 2 mg/kg by mouth.

UlcerGard® - 1 mg/kg by mouth once daily for either 8 or 28 days during stressful periods.

- Swine

40 mg daily by mouth for 2 days fasted for 48 hours

Special Notes:

None