

PEPCID- famotidine tablet, film coated

Bausch Health US LLC

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use PEPCID TABLETS safely and effectively. See full prescribing information for PEPCID TABLETS.

PEPCID® (famotidine) tablets, for oral use
Initial U.S. Approval: 1986

INDICATIONS AND USAGE

PEPCID is a histamine-2 (H2) receptor antagonist indicated (1): (1)
In adult and pediatric patients 40 kg and greater for the treatment of: (1)

- active duodenal ulcer (DU).
- active gastric ulcer.
- symptomatic nonerosive gastroesophageal reflux disease (GERD).
- erosive esophagitis due to GERD, diagnosed by biopsy.

In adults for the: (1)

- treatment of pathological hypersecretory conditions (e.g., Zollinger-Ellison syndrome, multiple endocrine neoplasias).
- reduction of the risk of DU recurrence.

DOSAGE AND ADMINISTRATION

Indication	Recommended Dosage (2.1)
<i>Adult and Pediatric Patients</i>	<i>40 kg and greater</i>
Active DU	40 mg once daily; or 20 mg twice daily
Active Gastric Ulcer	40 mg once daily
GERD	20 mg twice daily
Erosive Esophagitis	20 mg twice daily; or 40 mg twice daily
<i>Adults</i>	
Pathological Hypersecretory Conditions	20 mg every 6 hours; adjust to patient needs; maximum 160 mg every 6 hours
Risk Reduction of DU Recurrence	20 mg once daily

- See full prescribing information for complete dosing information, including dosing in renal impairment, and recommended treatment duration. (2.1, 2.2)

Administration (2.3):

- Take once daily before bedtime or twice daily in the morning and before bedtime with or without food

DOSAGE FORMS AND STRENGTHS

Tablets: 20 mg, 40 mg (3)

CONTRAINDICATIONS

History of serious hypersensitivity reactions (e.g., anaphylaxis) to famotidine or other H2 receptor antagonists. (4) (4)

WARNINGS AND PRECAUTIONS

- Central Nervous System (CNS) Adverse Reactions: Elderly patients and patients with renal impairment at increased risk; reduce the dosage. (2.2, 5.1, 8.5, 8.6)
- GI Malignancy: Absence of GI symptoms does not preclude the presence of gastric malignancy; evaluate prior to initiating therapy. (5.2)

ADVERSE REACTIONS

The most common adverse reactions are: headache, dizziness, constipation, and diarrhea. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Bausch Health US, LLC at 1-800-321-4576 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Drugs Dependent on Gastric pH for Absorption: Systemic exposure of the concomitant drug may be significantly reduced leading to loss of efficacy. See full prescribing information for a list of interacting drugs. (7.1)
- Tizanidine (CYP1A2) Substrate: Potential for substantial increases in blood concentrations of tizanidine resulting in hypotension, bradycardia or excessive drowsiness; avoid concomitant use, if possible. (7.2)

USE IN SPECIFIC POPULATIONS

- Geriatric Use: Use the lowest effective dose for an elderly patient and monitor renal function. (2.2, 5.1, 8.5)
- Renal Impairment: Risk of CNS adverse reactions and QT prolongation in patients with moderate and severe renal impairment; reduce the dosage. (2.2, 8.6)

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 6/2024

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

PEPCID tablets are indicated in adult and pediatric patients 40 kg and greater for the treatment of:

- active duodenal ulcer (DU).
- active gastric ulcer (GU).
- symptomatic nonerosive gastroesophageal reflux disease (GERD).
- erosive esophagitis due to GERD, diagnosed by biopsy.

PEPCID tablets are indicated in adults for the:

- treatment of pathological hypersecretory conditions (e.g., Zollinger-Ellison syndrome, multiple endocrine neoplasias).
- reduction of the risk of duodenal ulcer recurrence.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage

Table 1 shows the recommended dosage of PEPCID 20 mg and 40 mg tablets in adult and pediatric patients weighing 40 kg and greater with normal renal function. The use of PEPCID 20 mg and 40 mg tablets is not recommended in pediatric patients weighing less than 40 kg because the lowest available strength (20 mg) exceeds the recommended dose for these patients. Use another famotidine formulation for pediatric patients weighing less than 40 kg.

Table 1: Recommended Dosage and Duration of PEPCID Tablets in Adult and Pediatric Patients 40 kg and Greater with Normal Renal Function

		Recommended
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Indication	Recommended Dosage	Recommended Duration
Active duodenal ulcer (DU)	40 mg once daily; or 20 mg twice daily	Up to 8 weeks
Active gastric ulcer	40 mg once daily	Up to 8 weeksc
Symptomatic nonerosive GERD	20 mg twice daily	Up to 6 weeksc
Erosive esophagitis diagnosed by endoscopy	20 mg twice daily; or 40 mg twice daily ^a	Up to 12 weeks
Pathological hypersecretory conditionsd	Starting dosage: 20 mg every 6 hours; adjust dosage to individual patient needs Maximum dosage 160 mg every 6 hours	As clinically indicated
Reduction of the risk of DU recurrenced	20 mg once daily	1 year ^c or as clinically indicated

2.2 Dosage in Renal Impairment

Dosage adjustments of PEPCID are recommended for patients with moderate to severe renal impairment (creatinine clearance less than 60 mL/min) [see *Use in Specific Populations (8.6)*]. Table 2 shows the recommended maximum dosage of PEPCID 20 mg or 40 mg tablets for patients with renal impairment, by indication. Use the lowest effective dose. Some dosage adjustments may require switching to other formulations of famotidine (e.g., oral suspension, lower dose tablet).

Table 2: Recommended Maximum Dosage of PEPCID Tablets in Adult and Pediatric Patients 40 kg and Greater with Moderate and Severe Renal Impairment

Indication	Recommended Maximum Dosages	
	Creatinine clearance 30 to 60 mL/minute	Creatinine clearance less than 30 mL/minute
Active duodenal ulcer (DU)	20 mg once daily; or 40 mg every other day	20 mg every other day
Active gastric ulcer	20 mg once daily; or 40 mg every other day	20 mg every other day ^a
Symptomatic nonerosive GERD	20 mg once daily	20 mg every other day ^a
Erosive esophagitis diagnosed by endoscopy^b	20 mg once daily; or 40 mg every other day	20 mg every other day ^{a,b}
	40 mg once daily ^b	20 mg once daily ^b
Pathological hypersecretory conditions^c	Avoid used	

Reduction of the risk of DU recurrence	20 mg every other day	(see footnote)e
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2.3 Administration Instructions

- Take PEPCID once daily before bedtime or twice daily in the morning and before bedtime, as recommended.
- PEPCID may be taken with or without food [see *Clinical Pharmacology (12.3)*].
- PEPCID may be given with antacids.

3 DOSAGE FORMS AND STRENGTHS

- 20 mg tablets: round, white to off-white film-coated tablets coded MP 973 on one side and the other side plain.
- 40 mg tablets: round, white to off-white film-coated tablets coded MP 974 on one side and the other side plain.

4 CONTRAINDICATIONS

PEPCID is contraindicated in patients with a history of serious hypersensitivity reactions (e.g., anaphylaxis) to famotidine or other histamine-2 (H₂) receptor antagonists.

5 WARNINGS AND PRECAUTIONS

5.1 Central Nervous System Adverse Reactions

Central nervous system (CNS) adverse reactions, including confusion, delirium, hallucinations, disorientation, agitation, seizures, and lethargy, have been reported in elderly patients and patients with moderate and severe renal impairment treated with PEPCID. Since famotidine blood levels are higher in patients with renal impairment than in patients with normal renal function, dosage adjustments are recommended in patients with renal impairment [see *Dosage and Administration (2.2)*, *Clinical Pharmacology (12.3)*].

5.2 Concurrent Gastric Malignancy

In adults, symptomatic response to therapy with PEPCID does not preclude the presence of gastric malignancy. Consider evaluation for gastric malignancy in adult patients who have a suboptimal response or an early symptomatic relapse after completing treatment with PEPCID.

6 ADVERSE REACTIONS

6.1 Clinical Trial 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.

PEPCID was studied in 7 US and international placebo- and active-controlled trials in approximately 2500 patients [see *Clinical Studies (14)*]. A total of 1442 patients were treated with PEPCID, including 302 treated with 40 mg twice daily, 456 treated with 20 mg twice daily, 461 treated with 40 mg once daily, and 396 treated with 20 mg once daily. The population was 17-91 years old, fairly well distributed between gender and race; however, the predominant race treated was Caucasian.

The following adverse reactions occurred in greater than or equal to 1% of PEPCID-treated patients: headache, dizziness and constipation.

The following other adverse reactions were reported in less than 1% of patients in clinical trials:

Body as a Whole: fever, asthenia, fatigue

Cardiovascular: palpitations

Gastrointestinal: elevated liver enzymes, vomiting, nausea, abdominal discomfort, anorexia, dry mouth

Hematologic: thrombocytopenia

Hypersensitivity: orbital edema, rash, conjunctival injection, bronchospasm

Musculoskeletal: musculoskeletal pain, arthralgia

Nervous System/Psychiatric: seizure, hallucinations, depression, anxiety, decreased libido, insomnia, somnolence

Skin: pruritus, dry skin, flushing

Special Senses: tinnitus, taste disorder

Other: impotence

6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of famotidine. 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.

Cardiovascular: arrhythmia, AV block, prolonged QT interval

Gastrointestinal: cholestatic jaundice, hepatitis

Hematologic: agranulocytosis, pancytopenia, leukopenia

Hypersensitivity: anaphylaxis, angioedema, facial edema, urticaria

Musculoskeletal: rhabdomyolysis, muscle cramps

Nervous System/Psychiatric: confusion, agitation, paresthesia

Respiratory: interstitial pneumonia

Skin: toxic epidermal necrolysis/Stevens-Johnson syndrome

7 DRUG INTERACTIONS

7.1 Drugs Dependent on Gastric pH for Absorption

Famotidine can reduce the absorption of other drugs, due to its effect on reducing intragastric acidity, leading to loss of efficacy of the concomitant drug.

Concomitant administration of PEPCID with dasatinib, delavirdine mesylate, cefditoren, and fosamprenavir is not recommended.

See the prescribing information for other drugs dependent on gastric pH for absorption for administration instructions, including atazanavir, erlotinib, ketoconazole, itraconazole, ledipasvir/sofosbuvir, nilotinib, and rilpivirine.

7.2 Tizanidine (CYP1A2 Substrate)

Although not studied clinically, famotidine is considered a weak CYP1A2 inhibitor and may lead to substantial increases in blood concentrations of tizanidine, a CYP1A2 substrate. Avoid concomitant use with PEPCID. If concomitant use is necessary, monitor for hypotension, bradycardia or excessive drowsiness. Refer to the full prescribing information for tizanidine.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Available data with H₂-receptor antagonists, including famotidine, in pregnant women are insufficient to establish a drug-associated risk of major birth defects, miscarriage or adverse maternal or fetal outcomes. In animal reproduction studies, no adverse development effects were observed with oral administration of famotidine at doses up to approximately 243 and 122 times, respectively, the recommended human dose of 80 mg per day for the treatment of erosive esophagitis (*see Data*).

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

Data

Animal Data

Reproductive studies have been performed in rats and rabbits at oral doses of up to 2000 and 500 mg/kg/day, respectively, and in both species at intravenous doses of up to 200 mg/kg/day, and have revealed no significant evidence of impaired fertility or harm to the fetus due to PEPCID. While no direct fetotoxic effects have been observed, sporadic abortions occurring only in mothers displaying marked decreased food intake were seen in some rabbits at oral doses of 200 mg/kg/day (about 49 times the recommended human dose of 80 mg per day, based on body surface area) or higher.

There are, however, no adequate or well-controlled studies in pregnant women. Because animal reproductive studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

8.2 Lactation

Risk Summary

There are limited data available on the presence of famotidine in human breast milk. There were no effects on the breastfed infant. There are no data on famotidine effects on milk production. Famotidine is present in the milk of lactating rats (*see Data*).

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for famotidine and any potential adverse effects on the breastfed child from PEPCID or from the underlying maternal condition.

Data

Animal Data

Transient growth depression was observed in young rats suckling from mothers treated with maternotoxic doses of famotidine at least 600 times the usual human dose.

8.4 Pediatric Use

The safety and effectiveness of PEPCID have been established in pediatric patients for the treatment of peptic ulcer disease (i.e., duodenal ulcer, gastric ulcer) and GERD (i.e., symptomatic nonerosive GERD, erosive esophagitis as diagnosed by endoscopy). The use of PEPCID and the recommended dosage of PEPCID in these pediatric patients is supported by evidence from adequate and well-controlled studies of PEPCID in adults and published pharmacokinetic and pharmacodynamic data in pediatric patients [*see Dosage and Administration (2.1), Clinical Pharmacology (12.2, 12.3)*]. In pediatric patients, the safety and effectiveness for the treatment of pathological hypersecretory conditions and reduction of risk of duodenal ulcer recurrence have not been established.

PEPCID 20 and 40 mg tablets are not recommended for use in pediatric patients weighing less than 40 kg because these tablet strengths exceed the recommended dose for these patients [*see Dosage and Administration (2.1)*]. For pediatric patients weighing less than 40 kg, consider another famotidine formulation (e.g., oral suspension, lower dose tablet).

8.5 Geriatric Use

Of the 1442 PEPCID-treated patients in clinical studies, approximately 10% were 65 and older. In these studies, no overall differences in safety or effectiveness were observed between elderly and younger patients. In postmarketing experience, CNS adverse reactions have been reported in elderly patients with and without renal impairment receiving PEPCID [*see Warnings and Precautions (5.1)*].

Famotidine is known to be substantially excreted by the kidney, and the risk of adverse reactions to PEPCID may be greater in elderly patients, particularly those with impaired renal function [*see Use in Specific Populations (8.6)*].

In general, use the lowest effective dose of PEPCID for an elderly patient and monitor renal function [*see Dosage and Administration (2.2)*].

8.6 Renal Impairment

CNS adverse reactions and prolonged QT intervals have been reported in patients with

moderate and severe renal impairment [see *Warnings and Precautions (5.1)*]. The clearance of famotidine is reduced in adults with moderate and severe renal impairment compared to adults with normal renal function [see *Clinical Pharmacology (12.3)*]. No dosage adjustment is needed in patients with mild renal impairment (creatinine clearance greater than or equal to 60 mL/minute). Dosage reduction is recommended in adult and pediatric patients greater than or equal to 40 kg with moderate or severe renal impairment (creatinine clearance less than 60 mL/minute) [see *Dosage and Administration (2.2)*].

10 OVERDOSAGE

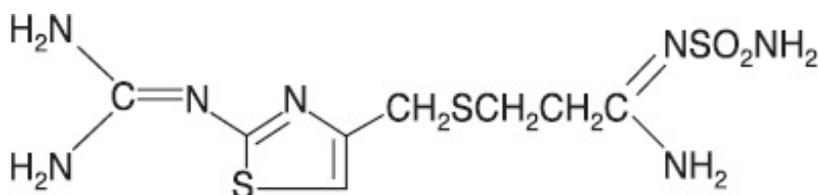
The types of adverse reactions in overdose of PEPCID are similar to the adverse reactions encountered with use of recommended dosages [see *Adverse Reactions (6.1)*].

In the event of overdose, treatment should be symptomatic and supportive. Unabsorbed material should be removed from the gastrointestinal tract, the patient should be monitored, and supportive therapy should be employed.

Due to low binding to plasma proteins, famotidine is eliminated by hemodialysis. There is limited experience on the usefulness of hemodialysis as a treatment for PEPCID overdose.

11 DESCRIPTION

The active ingredient in PEPCID (famotidine) tablets is a histamine-2 (H₂) receptor antagonist. Famotidine is *N'*-(aminosulfonyl)-3-[[[2-[[[(diaminomethylene)amino]-4-thiazolyl]methyl]thio]propanimidamide]. The empirical formula of famotidine is C₈H₁₅N₇O₂S₃ and its molecular weight is 337.43. Its structural formula is:



Each PEPCID tablet for oral administration contains either 20 mg or 40 mg of famotidine and the following inactive ingredients: hydroxypropyl cellulose, magnesium stearate, microcrystalline cellulose, polydextrose, polyethylene glycol, pregelatinized starch (modified corn starch), sodium starch glycolate, talc, titanium dioxide and triacetin.

Famotidine is a white to pale yellow crystalline compound that is freely soluble in glacial acetic acid, slightly soluble in methanol, very slightly soluble in water, and practically insoluble in ethanol.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Famotidine is a competitive inhibitor of histamine-2 (H₂) receptors. The primary clinically important pharmacologic activity of famotidine is inhibition of gastric secretion. Both the acid concentration and volume of gastric secretion are suppressed by famotidine, while changes in pepsin secretion are proportional to volume output.

12.2 Pharmacodynamics

Adults

PEPCID inhibited both basal and nocturnal gastric secretion, as well as secretion stimulated by food and pentagastrin. After oral administration of PEPCID, the onset of the antisecretory effect occurred within one hour; the maximum effect was dose-dependent, occurring within one to three hours. Duration of inhibition of secretion by doses of 20 mg and 40 mg was 10 to 12 hours.

Single evening oral doses of 20 mg and 40 mg inhibited basal and nocturnal acid secretion in all subjects; mean nocturnal gastric acid secretion was inhibited by 86% and 94%, respectively, for a period of at least 10 hours. The same doses given in the morning suppressed food-stimulated acid secretion in all subjects. The mean suppression was 76% and 84%, respectively, 3 to 5 hours after administration, and 25% and 30%, respectively, 8 to 10 hours after administration. In some subjects who received the 20 mg dose, however, the antisecretory effect was dissipated within 6 to 8 hours. There was no cumulative effect with repeated doses. The nocturnal intragastric pH was raised by evening doses of 20 mg and 40 mg of PEPCID to mean values of 5.0 and 6.4, respectively. When PEPCID was given after breakfast, the basal daytime interdigestive pH at 3 and 8 hours after 20 mg or 40 mg of PEPCID was raised to about 5.

PEPCID had little or no effect on fasting or postprandial serum gastrin levels. Gastric emptying and exocrine pancreatic function were not affected by PEPCID.

In clinical pharmacology studies, systemic effects of PEPCID in the CNS, cardiovascular, respiratory or endocrine systems were not noted. Also, no anti-androgenic effects were noted. Serum hormone levels, including prolactin, cortisol, thyroxine (T₄), and testosterone, were not altered after treatment with PEPCID.

Pediatric Patients

Pharmacodynamics of famotidine, assessed by gastric pH, were evaluated in 5 pediatric patients 2 to 13 years of age using the sigmoid E_{max} model. These data suggest that the relationship between serum concentration of famotidine and gastric acid suppression is similar to that observed in adults (see Table 3).

Table 3: Serum Concentrations of Famotidine Associated with Gastric Acid Reduction in PEPCID-Treated Pediatric and Adult Patients*

	EC ₅₀ (ng/mL) ^a
Pediatric Patients	26 ± 13
Adults	
Healthy adult subjects	26.5 ± 10.3

Adult patients with upper GI bleeding	18.7 ± 10.8
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* Using the Sigmoid E_{max} model, serum concentrations of famotidine associated with 50% maximum gastric acid reduction are presented as means ± SD.

In a study examining the effect of famotidine on gastric pH and duration of acid suppression in pediatric patients, four pediatric patients ages 11 to 15 years of age using the oral formulation at a dose of 0.5 mg/kg, maintained a gastric pH above 5 for 13.5 ± 1.8 hours.

12.3 Pharmacokinetics

Absorption

Famotidine is incompletely absorbed. The bioavailability of oral doses is 40 to 45%. Bioavailability may be slightly increased by food, or slightly decreased by antacids; however, these effects are of no clinical consequence.

Peak famotidine plasma levels occur in 1 to 3 hours. Plasma levels after multiple dosages are similar to those after single doses.

Distribution

Fifteen to 20% of famotidine in plasma is protein bound.

Elimination

Metabolism

Famotidine undergoes minimal first-pass metabolism. Twenty-five to 30% of an oral dose was recovered in the urine as unchanged compound. The only metabolite identified in humans is the S-oxide.

Excretion

Famotidine has an elimination half-life of 2.5-3.5 hours. Famotidine is eliminated by renal (65 to 70%) and metabolic (30 to 35%) routes. Renal clearance is 250 to 450 mL/minute, indicating some tubular excretion.

Specific Populations

Pediatric Patients

Bioavailability studies of 8 pediatric patients (11 to 15 years of age) showed a mean oral bioavailability of 0.5 compared to adult values of 0.42 to 0.49. Oral doses of 0.5 mg per kg achieved AUCs of 580 ± 60 ng•hr/mL in pediatric patients 11 to 15 years of age, compared to 482 ± 181 ng•hr/mL in adults treated with 40 mg orally.

Patients with Renal Impairment

In adult patients with severe renal impairment (creatinine clearance less than 30 mL/minute), the systemic exposure (AUC) of famotidine increased at least 5-fold. In patients with moderate renal impairment (creatinine clearance between 30 to 60 mL/minute), the AUC of famotidine increased at least 2-fold [see *Dosage and Administration (2.2), Use in Specific Populations (8.6)*].

Drug Interaction Studies

Human Organic Anion Transporter (OAT) 1 and 3: In vitro studies indicate that

famotidine is a substrate for OAT1 and OAT3. Following coadministration of probenecid (1500 mg), an inhibitor of OAT1 and OAT3, with a single oral 20 mg dose of famotidine in 8 healthy subjects, the serum AUC_{0-10h} of famotidine increased from 424 to 768 ng•hr/mL and the maximum serum concentration (C_{max}) increased from 73 to 113 ng/mL. Renal clearance, urinary excretion rate and amount of famotidine excreted unchanged in urine were decreased. The clinical relevance of this interaction is unknown.

Multidrug and Toxin Extrusion Protein 1 (MATE-1): An *in vitro* study showed that famotidine is an inhibitor of MATE-1. However, no clinically significant interaction with metformin, a substrate for MATE-1, was observed.

CYP1A2: Famotidine is a weak CYP1A2 inhibitor.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenic potential of famotidine was assessed in a 106-week oral carcinogenicity study in rats and a 92-week oral carcinogenicity study in mice. In the 106-week study in rats and the 92-week study in mice at oral doses of up to 2000 mg/kg/ day (approximately 243 and 122 times, respectively, based on body surface area, the recommended human dose of 80 mg per day for the treatment of erosive esophagitis), there was no evidence of carcinogenic potential for famotidine.

Famotidine was negative in the microbial mutagen test (Ames test) using *Salmonella typhimurium* and *Escherichia coli* with or without rat liver enzyme activation at concentrations up to 10,000 mcg/plate. In *in vivo* studies in mice, with a micronucleus test and a chromosomal aberration test, no evidence of a mutagenic effect was observed.

In studies with rats given oral doses of up to 2000 mg/kg/day (approximately 243 times, based on body surface area, the recommended human dose of 80 mg per day) fertility and reproductive performance were not affected.

14 CLINICAL STUDIES

14.1 Active Duodenal Ulcer

In a U.S. multicenter, double-blind trial in adult outpatients with endoscopically confirmed duodenal ulcer (DU), orally administered PEPCID was compared to placebo. As shown in Table 4, 70% of patients treated with PEPCID 40 mg at bedtime were healed by Week 4. Most patients' DU healed within 4 weeks.

Patients not healed by Week 4 were continued in the trial. By Week 8, 83% of patients treated with PEPCID had healed DU, compared to 45% of patients treated with placebo. The incidence of DU healing with PEPCID was greater than with placebo at each time point based on proportion of endoscopically confirmed healed DUs. Trials have not assessed the safety of PEPCID in uncomplicated active DU for periods of more than 8 weeks.

Table 4: Patients with Endoscopically Confirmed Healed Duodenal Ulcers

	PEPCID 40 mg at bedtime (N=89)	PEPCID 20 mg twice daily (N=84)	Placebo at bedtime (N=97)
Week 2	32%*	38%*	17%
Week 4	70%*	67%*	31%

* p<0.001 vs. placebo

In this study, time to relief of daytime and nocturnal pain was shorter for patients receiving PEPCID than for patients receiving placebo; patients receiving PEPCID also took less antacid than patients receiving placebo.

14.2 Active Gastric Ulcer

In both a U.S. and an international multicenter, double-blind trials in patients with endoscopically confirmed active gastric ulcer (GU), orally administered PEPCID 40 mg at bedtime was compared to placebo. Antacids were permitted during the trials, but consumption was not significantly different between the PEPCID and placebo groups.

As shown in Table 5, the incidence of GU healing confirmed by endoscopy (dropouts counted as unhealed) with PEPCID was greater than placebo at Weeks 6 and 8 in the U.S. trial, and at Weeks 4, 6 and 8 in the international trial. In these trials, most PEPCID-treated patients healed within 6 weeks. Trials have not assessed the safety of PEPCID in uncomplicated active GU for periods of more than 8 weeks.

Table 5: Patients with Endoscopically Confirmed Healed Gastric Ulcers

	U.S. Study (N=149)		International Study (N=294)	
	PEPCID 40 mg at bedtime (N=74)	Placebo at bedtime (N=75)	PEPCID 40 mg at bedtime (N=149)	Placebo at bedtime (N=145)
Week 4	45%	39%	47%*	31%
Week 6	66%*	44%	65%*	46%
Week 8	78%†	64%	80%*	54%

* p≤0.01 vs. placebo

† p≤0.05 vs. placebo

Time to complete relief of daytime and nighttime pain was statistically significantly shorter for patients receiving PEPCID than for patients receiving placebo; however, neither trial demonstrated a statistically significant difference in the proportion of patients whose pain was relieved by the end of the trial (Week 8).

14.3 Symptomatic Gastroesophageal Reflux Disease (GERD)

Orally administered PEPCID was compared to placebo in a U.S. trial that enrolled patients with symptoms of GERD and without endoscopic evidence of esophageal erosion or ulceration. As shown in Table 6, patients treated with PEPCID 20 mg twice daily had greater improvement in symptomatic GERD than patients treated with 40 mg at bedtime or placebo.

Table 6: Patients with Improvement of Symptomatic GERD (N=376)

	PEPCID 20 mg twice daily (N=154)	PEPCID 40 mg at bedtime (N=149)	Placebo at bedtime (N=73)
Week 6	82%*	69%	62%

* $p \leq 0.01$ vs. placebo

14.4 Erosive Esophagitis due to GERD

Healing of endoscopically verified erosion and symptomatic improvement were studied in a U.S. and an international double-blind trials. Healing was defined as complete resolution of all erosions visible with endoscopy. The U.S. trial comparing orally-administered PEPCID 40 mg twice daily to placebo and orally administered PEPCID 20 mg twice daily showed a significantly greater percentage of healing of erosive esophagitis for PEPCID 40 mg twice daily at Weeks 6 and 12 (Table 7).

Table 7: Patients with Endoscopic Healing of Erosive Esophagitis - U.S. Study (N=318)

	PEPCID 40 mg twice daily (N=127)	PEPCID 20 mg twice daily (N=125)	Placebo twice daily (N=66)
Week 6	48%**	32%	18%
Week 12	69%*†	54%*	29%

* $p \leq 0.01$ vs. PEPCID 20 mg twice daily

† $p \leq 0.05$ vs. PEPCID 20 mg twice daily

As compared to placebo, patients in the U.S. trial who received PEPCID had faster relief of daytime and nighttime heartburn, and a greater percentage of PEPCID-treated patients experienced complete relief of nighttime heartburn. These differences were statistically significant.

In the international trial, when orally administered PEPCID 40 mg twice daily was compared to orally administered ranitidine 150 mg twice daily, a statistically significantly greater percentage of healing of erosive esophagitis was observed with PEPCID 40 mg twice daily at Week 12 (Table 8). There was, however, no significant difference in symptom relief among treatment groups.

Table 8: Patients with Endoscopic Healing of Erosive Esophagitis International Study (N=440)

	PEPCID 40 mg twice daily (N=175)	PEPCID 20 mg twice daily (N=93)	Ranitidine 150 mg twice daily (N=172)
Week 6	48%	52%	42%
Week 12	71%*	68%	60%

* $p \leq 0.05$ vs ranitidine 150 mg twice daily

14.5 Pathological Hypersecretory Conditions

In trials of patients with pathological hypersecretory conditions such as Zollinger-Ellison

syndrome with or without multiple endocrine neoplasias, PEPCID significantly inhibited gastric acid secretion and controlled associated symptoms. Orally administered PEPCID dosages from 20 mg to 160 mg every 6 hours maintained basal acid secretion below 10 mEq/hour; initial dosages were titrated to the individual patient need and subsequent adjustments were necessary with time in some patients.

14.6 Risk Reduction of Duodenal Ulcer Recurrence

Two randomized, double-blind, multicenter trials in patients with endoscopically confirmed healed DUs demonstrated that patients receiving treatment with orally administered PEPCID

20 mg at bedtime had lower rates of DU recurrence, as compared with placebo.

- In the U.S. trial, DU recurrence within 12 months was 2.4 times greater in patients treated with placebo than in the patients treated with PEPCID. The 89 PEPCID-treated patients had a cumulative observed DU recurrence rate of 23%, compared to a 57% in the 89 patients receiving placebo ($p < 0.01$).
- In the international trial, the cumulative observed DU recurrence within 12 months in the 307 PEPCID-treated patients was 36%, compared to 76% in the 325 patients who received placebo ($p < 0.01$).

Controlled trials have not extended beyond one year.

16 HOW SUPPLIED/STORAGE AND HANDLING

PEPCID (famotidine) tablets are supplied as follows:

NDC	Strength	Quantity	Description
0187-4420-30	20 mg	unit of use bottles of 30	round, white to off-white film-coated tablets coded with MP 973 on one side and the other side plain
0187-4420-10	20 mg	unit of use bottles of 100	round, white to off-white film-coated tablets coded with MP 973 on one side and the other side plain
0187-4440-30	40 mg	unit of use bottles of 30	round, white to off-white film-coated tablets coded with MP 974 on one side and the other side plain
0187-4440-10	40 mg	unit of use bottles of 100	round, white to off-white film-coated tablets coded with MP 974 on one side and the other side plain

Storage

Store at 25°C (77°F); excursions permitted to 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature]. Dispense in a USP tight, light-resistant container.

17 PATIENT COUNSELING INFORMATION

Central Nervous System (CNS) Adverse Reactions

Advise elderly patients and those with moderate and severe renal impairment of the risk of CNS adverse reactions, including confusion, delirium, hallucinations, disorientation, agitation, seizures, and lethargy [see *Warnings and Precautions (5.1)*]. Report symptoms immediately to a healthcare provider.

QT Prolongation

Advise patients with moderate and severe renal impairment of the risk of QT interval prolongation [see *Use in Specific Populations (8.6)*]. Report new cardiac symptoms, such as palpitations, fainting and dizziness or lightheadedness immediately to a healthcare provider.

Administration

Advise patients:

- Take PEPCID once daily before bedtime or twice daily in the morning and before bedtime, as recommended.
- PEPCID may be taken with or without food.
- PEPCID may be given with antacids.

Distributed by:

Bausch Health US, LLC
Bridgewater, NJ 08807 USA

Manufactured by:

Carlsbad Technology, Inc.
Carlsbad, CA 92008

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M97201

PACKAGE/LABEL PRINCIPAL DISPLAY PANEL

NDC 0187-4420-30 **Rx only** **Each tablet contains:**
 20 mg of famotidine.

Usual Dosage:
 See package insert for full prescribing information.
 Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].
 Dispense in a USP tight, light-resistant container.

Distributed by:
 Bausch Health US, LLC
 Bridgewater, NJ 08807 USA
 Product of Spain
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Pepcid®
(famotidine)
Tablets, USP

20 mg

30 Tablets **BAUSCH+Health** 2014805

3 0187442030 8

NDC 0187-4420-30
Rx only
Pepcid
(Famotidine)
Tablets, USP
20 mg
30 Tablets
BAUSCH HEALTH

Package/Label Display Panel

NDC 0187-4440-30 **Rx only** **Each tablet contains:**
 40 mg of famotidine.

Usual Dosage:
 See package insert for full prescribing information.
 Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].
 Dispense in a USP tight, light-resistant container.

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 Bridgewater, NJ 08807 USA
 Product of Spain
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Pepcid®
(famotidine)
Tablets, USP

40 mg

30 Tablets **BAUSCH+Health** 2015005

3 0187442030 9

NDC 0187-4440-30

Rx only

**Pepcid
(Famotidine)
Tablets, USP**

40 mg

30 Tablets

BAUSCH HEALTH

PEPCID				
famotidine tablet, film coated				
Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0187-4420	
Route of Administration	ORAL			
Active Ingredient/Active Moiety				
	Ingredient Name	Basis of Strength	Strength	
	FAMOTIDINE (UNII: 5QZO15J2Z8) (FAMOTIDINE - UNII:5QZO15J2Z8)	FAMOTIDINE	20 mg	
Inactive Ingredients				
	Ingredient Name		Strength	
	HYDROXYPROPYL CELLULOSE (1600000 WAMW) (UNII: RFW2ET671P)			
	MAGNESIUM STEARATE (UNII: 70097M6I30)			
	MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)			
	POLYDEXTROSE (UNII: VH2XOU12IE)			
	STARCH, CORN (UNII: O8232NY3SJ)			
	TALC (UNII: 7SEV7J4R1U)			
	TRIACETIN (UNII: XHX3C3X673)			
	TITANIUM DIOXIDE (UNII: 15FIX9V2JP)			
Product Characteristics				
Color	WHITE	Score	no score	
Shape	ROUND (film-coated)	Size	7mm	
Flavor		Imprint Code	MP973	
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0187-4420-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	04/16/2001	

2	NDC:0187-4420-10	100 in 1 BOTTLE; Type 0: Not a Combination Product	04/16/2001	
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Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA075805	04/16/2001	

PEPCID

famotidine tablet, film coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0187-4440
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
FAMOTIDINE (UNII: 5QZO15J2Z8) (FAMOTIDINE - UNII:5QZO15J2Z8)	FAMOTIDINE	40 mg

Inactive Ingredients

Ingredient Name	Strength
HYDROXYPROPYL CELLULOSE (1600000 WAMW) (UNII: RFW2ET671P)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
POLYDEXTROSE (UNII: VH2XOU12IE)	
STARCH, CORN (UNII: O8232NY3SJ)	
TALC (UNII: 7SEV7J4R1U)	
TRIACETIN (UNII: XHX3C3X673)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	

Product Characteristics

Color	WHITE	Score	no score
Shape	ROUND (film-coated)	Size	7mm
Flavor		Imprint Code	MP974
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0187-4440-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	04/16/2001	

2	NDC:0187-4440-10	100 in 1 BOTTLE; Type 0: Not a Combination Product	04/16/2001
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Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA075805	04/16/2001	

Labeler - Bausch Health US LLC (831922468)

Establishment

Name	Address	ID/FEI	Business Operations
Carlsbad Technology, Inc. DBA: Carlsbad Tech		968263561	MANUFACTURE(0187-4420, 0187-4440)

Revised: 6/2024

Bausch Health US LLC