

Back on the Market
with New Formulation

150 mg &
300 mg

Helps Manage Ulcers & Acid Reflux

Erosive
Esophagitis

Acid
Reflux

Peptic Ulcer
Disease

GERD



Ranitidine Hydrochloride Tablets 150 & 300 mg

NDC: 64980-636-03, 64980-637-03

INDICATIONS:

Ranitidine Tablets are indicated in:

- Short-term treatment of active duodenal ulcer.
- Maintenance therapy for duodenal ulcer patients at reduced dosage after healing of acute ulcers.
- The treatment of pathological hypersecretory conditions.
- Short-term treatment of active, benign gastric ulcers.
- Maintenance therapy for gastric ulcer patients at reduced dosage after healing of acute ulcers.
- Treatment of GERD.
- Treatment of endoscopically diagnosed erosive esophagitis.
- Maintenance of healing of erosive esophagitis.

PRECAUTIONS

General:

1. Symptomatic response to therapy with Ranitidine Tablets does not preclude the presence of gastric malignancy.
2. Since Ranitidine Tablets are excreted primarily by the kidney, dosage should be adjusted in patients with impaired renal function (see DOSAGE AND ADMINISTRATION). Caution should be observed in patients with hepatic dysfunction since Ranitidine Tablets are metabolized in the liver.
3. Rare reports suggest that Ranitidine Tablets may precipitate acute porphyric attacks in patients with acute porphyria. Ranitidine Tablets should therefore be avoided in patients with a history of acute porphyria.
4. This product contains FD&C Yellow No. 5 (tartrazine) which may cause allergic-type reactions (including bronchial asthma) in certain susceptible persons. Although the overall incidence of FD&C Yellow No. 5 (tartrazine) sensitivity in the general population is low, it is frequently seen in patients who also have aspirin hypersensitivity.

For full Prescribing Information,
see attached Product Insert.

You are encouraged to report negative side effects of
prescription drugs to the FDA. Visit fda.gov/medwatch or
call 1-800-FDA-1088.

How It Works

Ranitidine is a histamine-2 receptor antagonist that helps patients find relief.

- H2 receptors on gastric parietal cells are blocked
- This action reduces the production of stomach acid
- Lower acid levels relieve symptoms and support healing



Flexible dosing helps patients get the relief they need.

150 mg

Suitable for mild-to-moderate symptoms

300 mg

Appropriate for more persistent acid-related symptoms

HOW TO WRITE:

Ranitidine

Take 1 tablet by mouth at bedtime.

150 mg 300 mg

Dispense as written



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RANITIDINE- ranitidine tablet
Rising Pharma Holdings, Inc.

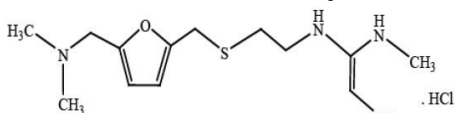
PRESCRIBING INFORMATION

RANITIDINE TABLETS USP 150 mg and 300 mg

DESCRIPTION

Ranitidine Tablets USP are available for oral administration containing 150 mg or 300 mg of ranitidine. The active ingredient in Ranitidine Tablets USP, 150 mg and 300 mg is Ranitidine hydrochloride (HCl), USP, a histamine H₂-receptor antagonist.

Chemically it is N[2-[[[5-[(dimethylamino)methyl]-2-furanyl] methyl]thio]ethyl]-N'-methyl-2-nitro-1,1-ethenediamine, HCl. It has the following structure:



The empirical formula is C₁₃H₂₂N₄O₃S•HCl, representing a molecular weight of 350.87.

Ranitidine HCl is white to pale yellow, crystalline, practically odorless powder, sensitive to light and moisture. Melts at about 140°C with decomposition.

Ranitidine is available as 150 mg and 300 mg tablets for oral administration.

Each Ranitidine Tablet USP, 150 mg contains 150 mg ranitidine (equivalent to 168 mg of ranitidine HCl) and the following inactive ingredients microcrystalline cellulose, croscarmellose sodium, magnesium stearate, Opadry® 200 Orange 203A530006 (Polyvinyl alcohol, talc, titanium dioxide, glycerol monostearate, sodium lauryl sulphate, FD&C yellow 6 and iron oxide yellow), purified water.

Each Ranitidine Tablet USP, 300 mg contains 300 mg ranitidine (equivalent to 336 mg of ranitidine HCl) and the following inactive ingredients microcrystalline cellulose, croscarmellose sodium, magnesium stearate, Opadry® 200 Yellow 203A520014 (Polyvinyl alcohol, talc, titanium dioxide, glycerol monostearate, sodium lauryl sulphate, FD&C yellow 5 and FD&C Blue 1), purified water.

Contains color additives including FD&C Yellow No.5 (tartrazine)

Meets FDA approved specifications for nitrosamine impurities.

CLINICAL PHARMACOLOGY

Ranitidine Tablets are a competitive, reversible inhibitor of the action of histamine at the histamine H₂-receptors, including receptors on the gastric cells. Ranitidine Tablets do not lower serum Ca⁺⁺ in hypercalcemic states. Ranitidine Tablets are not an anticholinergic agent.

Pharmacokinetics

Absorption

Ranitidine Tablets are 50% absorbed after oral administration, compared to an intravenous (IV) injection with mean peak levels of 440 to 545 ng/mL occurring 2 to 3 hours after a 150 mg dose. Absorption is not significantly impaired by the administration of food or antacids. Propantheline slightly delays and increases peak blood levels of ranitidine, probably by delaying gastric emptying and transit time. In one study, simultaneous administration of high-potency antacid (150 mmol) in fasting subjects has been reported to decrease the absorption of Ranitidine Tablets.

Distribution

The volume of distribution is about 1.4 L/kg. Serum protein binding averages 15%.

Metabolism

In humans, the N-oxide is the principal metabolite in the urine; however, this amounts to < 4% of the dose. Other metabolites are the S-oxide (1%) and the desmethyl ranitidine (1%). The remainder of the administered dose is found in the stool. Studies in patients with hepatic dysfunction (compensated cirrhosis) indicate that there are minor, but clinically insignificant, alterations in ranitidine half-life, distribution, clearance, and bioavailability.

Excretion

The principal route of excretion is the urine, with approximately 30% of the orally administered dose collected in the urine as unchanged drug in 24 hours. Renal clearance is about 410 mL/min, indicating active tubular excretion. The elimination half-life is 2.5 to 3 hours. Four patients with clinically significant renal function impairment (creatinine clearance 25 to 35 mL/min) administered 50 mg of ranitidine intravenously had an average plasma half-life of 4.8 hours, a ranitidine clearance of 29 mL/min, and a volume of distribution of 1.76 L/kg. In general, these parameters appear to be altered in proportion to creatinine clearance (see DOSAGE AND ADMINISTRATION).

Geriatrics

The plasma half-life is prolonged and total clearance is reduced in the elderly population due to a decrease in renal function. The elimination half-life is 3 to 4 hours. Peak levels average 526 ng/mL following a 150-mg twice-daily dose and occur in about 3 hours (see PRECAUTIONS: Geriatric Use and DOSAGE AND ADMINISTRATION: Dosage Adjustment for Patients with Impaired Renal Function).

Pediatrics

There are no significant differences in the pharmacokinetic parameter values for ranitidine in pediatric patients (from one month up to 16 yrs of age) and healthy adults when correction is made for body weight. The average bioavailability of Ranitidine is given orally to

pediatric patients is 48%, which is comparable to the bioavailability of Ranitidine in the adult population. All other pharmacokinetic parameter values ($t_{1/2}$, V_d , and CL) are similar to those observed with intravenous Ranitidine use in pediatric patients. Estimates of C_{max} and T_{max} are displayed in Table 1.

Table 1. Ranitidine Pharmacokinetics in Pediatric Patients Following Oral Dosing

Population (age)	n	Dosage Form (dose)	C_{max} (ng/mL)	T_{max} (hours)
Gastric or duodenal ulcer (3 to 16 years)	12	Tablets (1 to 2 mg/kg)	54 to 492	2.0

Plasma clearance measured in 2 neonatal patients (less than 1 month of age) was considerably lower (3 mL/min/kg) than children or adults and is likely due to reduced renal function observed in this population (see PRECAUTIONS: Pediatric Use and DOSAGE AND ADMINISTRATION: Pediatric Use).

Pharmacodynamics

Serum concentrations necessary to inhibit 50% of stimulated gastric acid secretion are estimated to be 36 to 94 ng/mL. Following a single oral dose of 150 mg, serum concentrations of Ranitidine are in this range up to 12 hours. However, blood levels bear no consistent relationship to dose or degree of acid inhibition.

Antisecretory Activity

1. Effects on Acid Secretion

Ranitidine Tablets inhibits both daytime and nocturnal basal gastric acid secretions as well as gastric acid secretion stimulated by food, betazole, and pentagastrin, as shown in below Table 2.

Table 2. Effect of Oral Ranitidine Tablets on Gastric Acid Secretion

	Time After Dose, hours	% Inhibition of Gastric Acid Output by Dose, mg			
		75 - 80	100	150	200
Basal	Up to 4	99	99	95	95
Nocturnal	Up to 13	95	96	92	92
Betazole	Up to 3	97	99	99	99
Pentagastrin	Up to 5	58	72	72	80
Meal	Up to 3		73	79	95

It appears that basal-, nocturnal-, and betazole-stimulated secretions are most sensitive to inhibition by Ranitidine Tablets, responding almost completely to doses of 100 mg or less, while pentagastrin- and food-stimulated secretions are more difficult to suppress.

2. Effects on Other Gastrointestinal Secretions

Pepsin: Oral Ranitidine Tablets do not affect pepsin secretion. Total pepsin output is reduced in proportion to the decrease in volume of gastric juice.

Intrinsic Factor: Oral Ranitidine Tablets have no significant effect on pentagastrin-stimulated intrinsic factor secretion.

Serum Gastrin: Ranitidine Tablets have little or no effect on fasting or postprandial serum gastrin.

Other Pharmacologic Actions

- Gastric bacterial flora - increase in nitrate-reducing organisms, significance not known.
- Prolactin levels - no effect in recommended oral or IV dosage, but small, transient, dose-related increases in serum prolactin have been reported after IV bolus injections of 100 mg or more.
- Other pituitary hormones - no effect on serum gonadotropins, TSH, or GH. Possible impairment of

vasopressin release.

- No change in cortisol, aldosterone, androgen, or estrogen levels.
- No antiandrogenic action.
- No effect on count, motility, or morphology of sperm.

Pediatrics

Oral doses of 6 to 10 mg/kg/day in 2 or 3 divided doses maintain gastric pH>4 throughout most of the dosing interval.

Clinical Trials

Active Duodenal Ulcer

In a multicenter, double-blind, controlled, US study of endoscopically diagnosed duodenal ulcers, earlier healing was seen in the patients treated with Ranitidine Tablets as shown in Table 3.

Table 3. Duodenal Ulcer Patient Healing Rates

Outpatients	Ranitidine Tablets		Placebo	
	Number Entered	Healed/Evaluable	Number Entered	Healed/Evaluable
Week 2	195	69/182 (38%)	188	31/164 (19%)
Week 4		137/187 (73%)		76/168 (45%)

All patients were permitted antacids as needed for relief of pain
* $P < 0.001$

In these studies, patients treated with Ranitidine Tablets reported a reduction in both daytime and nocturnal pain, and they also consumed less antacid than the placebo-treated patients.

Table 4. Mean Daily Doses of Antacid

Ranitidine Tablets	Ulcer Healed	Ulcer Not Healed
Placebo	0.06	0.71
	0.71	1.43

Foreign studies have shown that patients heal equally well with 150 mg twice daily and 300 mg at bed time (85% versus 84%, respectively) during a usual 4-week course of therapy. If patients require extended therapy of 8 weeks, the healing rate may be higher for 150 mg twice daily as compared to 300 mg at bed time (92% versus 87%, respectively).

Studies have been limited to short-term treatment of acute duodenal ulcer. Patients whose ulcers healed during therapy had recurrences of ulcers at the usual rates.

Maintenance Therapy in Duodenal Ulcer

Ranitidine has been found to be effective as a maintenance therapy for patients, following healing of acute duodenal ulcers. In 2 independent, double-blind, multi-center, controlled trials, the number of duodenal ulcers observed was significantly less in patients treated with Ranitidine Tablets (150 mg at bed time) than in patients treated with placebo over a 12-month period.

Table 5. Duodenal Ulcer Prevalence

Multicenter Trial	Drug	Double-Blind, Multicenter, Placebo-Controlled Trials			No. of Patients
		Duodenal Ulcer Prevalence			
		0-4 Months	0-8 Months	0-12 Months	
USA	RAN	20%*	24%*	35%*	138
	PLC	44%	54%	59%	139
Foreign	RAN	12%*	21%*	28%*	174
	PLC	56%	64%	68%	165

% = Life table estimate.

* = $P < 0.05$ (Ranitidine Tablets versus comparator).

RAN = ranitidine (Ranitidine Tablets)

PLC = Placebo.

As with other H_2 -antagonists, the factors responsible for the significant reduction in the prevalence of duodenal

ulcers include prevention of recurrence of ulcers, more rapid healing of ulcers that may occur during maintenance therapy, or both.

Gastric Ulcer

In a multicenter, double-blind, controlled, US study of endoscopically diagnosed gastric ulcers, earlier healing was seen in the patients treated with Ranitidine Tablets as shown in Table 6.

Table 6. Gastric Ulcer Patient Healing Rates

	Ranitidine Tablets*		Placebo*	
	Number entered	Healed / Evaluator	Number entered	Healed / Evaluator
Outpatients				
Week 2	92	16/83 (19%)	94	10/83 (12%)
Week 6		50/73 (68%)*		35/69 (51%)

*All patients were permitted antacids as needed for relief of pain.
†P= 0.009

In this multicenter trial, significantly more patients treated with Ranitidine Tablets became painfree during therapy.

Maintenance of Healing of Gastric Ulcers

In 2 multicenter, double-blind, randomized, placebo-controlled, 12-month trials conducted in patients whose gastric ulcers had been previously healed, Ranitidine Tablets 150 mg at bed time was significantly more effective than placebo in maintaining healing of gastric ulcers.

Pathological Hypersecretory Conditions (such as Zollinger-Ellison syndrome)

Ranitidine Tablets inhibits gastric acid secretion and reduces occurrence of diarrhea, anorexia, and pain in patients with pathological hypersecretion associated with Zollinger-Ellison syndrome, systemic mastocytosis, and other pathological hypersecretory conditions. (e.g., postoperative, "short-gut" syndrome, idiopathic). Use of Ranitidine Tablets was followed by healing of ulcers in 8 of 19 (42%) patients who were intractable to previous therapy.

Gastroesophageal Reflux Disease (GERD)

In 2 multicenter, double-blind, placebocontrolled, 6-week trials performed in the United States and Europe, Ranitidine Tablets USP, 150 mg twice daily was more effective than placebo for the relief of heartburn and other symptoms associated with GERD. Ranitidine-treated patients consumed significantly less antacid than did placebo-treated patients.

The US trial indicated that Ranitidine Tablets USP, 150 mg twice daily significantly reduced the frequency of heartburn attacks and severity of heartburn pain within 1 to 2 weeks after starting therapy. The improvement was maintained throughout the 6-week trial period. Moreover, patient response rates demonstrated that the effect of heartburn extends through both the day and nighttime periods. In 2 additional US multicenter, double-blind, placebo controlled, 2-week trials, Ranitidine Tablets USP, 150 mg twice daily was shown to provide relief of heartburn pain within 24 hours of initiating therapy and a reduction in the frequency of severity of heartburn.

Erosive Esophagitis

In 2 multicenter, double-blind, randomized, placebo-

controlled, 12- week trials performed in the United States, Ranitidine Tablets USP, 150 mg 4 times daily was significantly more effective than placebo in healing endoscopically diagnosed erosive esophagitis and in relieving associated heartburn. The erosive esophagitis healing rates were as follows in Table 7:

Table 7. Erosive Esophagitis Patient Healing Rates

	Healed/Evaluator	
	Placebo* n = 229	Ranitidine Tablets USP 150 mg 4 times daily* n = 215
Week 4	43/198 (22%)	96/206 (47%)*
Week 8	63/176 (36%)	142/200 (71%)*
Week 12	92/159 (58%)	162/192 (84%)*

*All patients were permitted antacids as needed for relief of pain.
†P < 0.001 versus placebo.

No additional benefit in healing of esophagitis or in relief of heartburn was seen with a ranitidine dose of 300 mg 4 times daily.

Maintenance of Healing of Erosive Esophagitis

In 2 multicenter, double-blind, randomized, placebo-controlled, 48-week trials conducted in patients whose erosive esophagitis had been previously healed, Ranitidine Tablets USP, 150 mg twice daily was significantly more effective than placebo in maintaining healing of erosive esophagitis.

INDICATIONS AND USAGE

Ranitidine Tablets are indicated in:

1. Short- term treatment of active duodenal ulcer. Most patients heal within 4 weeks. Studies available to date have not assessed the safety of Ranitidine in uncomplicated duodenal ulcer for periods of more than 8 weeks.
2. Maintenance therapy for duodenal ulcer patients at reduced dosage after healing of acute ulcers. No placebo- controlled comparative studies have been carried out for periods of longer than 1 year.
3. The treatment of pathological hypersecretory conditions (e.g., Zollinger-Ellison syndrome and systemic mastocytosis).
4. Short-term treatment of active, benign gastric ulcers. Most patients heal within 6 weeks and the usefulness of further treatment has not been demonstrated. Studies available to date have not assessed the safety of ranitidine in uncomplicated, benign gastric ulcer for periods of more than 6 weeks.
5. Maintenance therapy for gastric ulcer patients at reduced dosage after healing of acute ulcers. Placebo-controlled studies have been carried out for 1 year.
6. Treatment of GERD. Symptomatic relief commonly occurs within 24 hours after starting therapy with Ranitidine Tablets USP, 150 mg twice daily.
7. Treatment of endoscopically diagnosed erosive esophagitis. Symptomatic relief of heartburn commonly occurs within 24 hours of therapy initiation with Ranitidine Tablets USP, 150 mg 4 times daily.
8. Maintenance of healing of erosive esophagitis. Placebo-controlled trials have been carried out for 48 weeks.

Concomitant antacids should be given as needed for pain relief to patients with active duodenal ulcer; active, benign

gastric ulcer; hypersecretory states; GERD; and erosive esophagitis.

CONTRAINDICATIONS

Ranitidine Tablets are contraindicated for patients known to have hypersensitivity to the drug or any of the ingredients (see PRECAUTIONS).

PRECAUTIONS

General

1. Symptomatic response to therapy with Ranitidine Tablets does not preclude the presence of gastric malignancy.
2. Since Ranitidine Tablets are excreted primarily by the kidney, dosage should be adjusted in patients with impaired renal function (see DOSAGE AND ADMINISTRATION). Caution should be observed in patients with hepatic dysfunction since Ranitidine Tablets are metabolized in the liver.
3. Rare reports suggest that Ranitidine Tablets may precipitate acute porphyric attacks in patients with acute porphyria. Ranitidine Tablets should therefore be avoided in patients with a history of acute porphyria.
4. This product contains FD&C Yellow No. 5 (tartrazine) which may cause allergic-type reactions (including bronchial asthma) in certain susceptible persons. Although the overall incidence of FD&C Yellow No 5 (tartrazine) sensitivity in the general population is low, it is frequently seen in patients who also have aspirin hypersensitivity.

Laboratory Tests

False-positive tests for urine protein with MULTISTIX® may occur during therapy with Ranitidine Tablets, and therefore testing with sulfosalicylic acid is recommended.

Drug Interactions

Ranitidine has been reported to affect the bioavailability of other drugs through several different mechanisms such as competition for renal tubular secretion, alteration of gastric pH, and inhibition of cytochrome P₄₅₀ enzymes.

Procainamide

Ranitidine, a substrate of the renal organic cation transport system, may affect the clearance of other drugs eliminated by this route. High doses of ranitidine (e.g., such as those used in the treatment of Zollinger-Ellison syndrome) have been shown to reduce the renal excretion of procainamide and N-acetylprocainamide resulting in increased plasma levels of these drugs. Although this interaction is unlikely to be clinically relevant at usual ranitidine doses, it may prudent to monitor for procainamide toxicity when administered with oral ranitidine at a dose exceeding 300 mg per day.

Warfarin

There have been reports of altered prothrombin time among patients on concomitant warfarin and ranitidine therapy. Due to the narrow therapeutic index, close monitoring of increased or decreased prothrombin

time is recommended during concurrent treatment with ranitidine. Ranitidine may alter the absorption of drugs in which gastric pH is an important determinant of bio-availability. This can result in either an increase in absorption (e.g., triazolam, midazolam, glipizide) or a decrease in absorption (e.g., ketoconazole, Atazanavir, delavirdine, gefitinib). Appropriate clinical monitoring is recommended.

Atazanavir

Atazanavir absorption may be impaired based on known interactions with other agents that increase gastric pH. Use with caution. See atazanavir label for specific recommendations.

Delavirdine

Delavirdine absorption may be impaired based on known interactions with other agents that increase gastric pH. Chronic use of H₂-receptor antagonists with delavirdine is not recommended.

Gefitinib

Gefitinib exposure was reduced by 44% with the co-administration of ranitidine and sodium bicarbonate (dosed to maintain gastric pH above 5.0). Use with caution.

Glipizide

In diabetic patients, glipizide exposure was increased by 34% following a single 150 mg dose of oral ranitidine. Use appropriate clinical monitoring when initiating or discontinuing ranitidine.

Ketoconazole

Oral ketoconazole exposure was reduced by up to 95% when oral ranitidine was co-administered in a regimen to maintain a gastric pH of 6 or above. The degree of interaction with usual dose of ranitidine (150 mg twice daily) is unknown.

Midazolam

Oral midazolam exposure in 5 healthy volunteers was increased by up to 65% when administered with oral ranitidine at a dose of 150 mg twice daily. However, in another interaction trial in 8 volunteers receiving IV midazolam, a 300 mg oral dose of ranitidine increased midazolam exposure by about 9%. Monitor patients for excessive or prolonged sedation when ranitidine is co-administered with oral midazolam.

Triazolam

Triazolam exposure in healthy volunteers was increased by approximately 30% when administered with oral ranitidine at a dose of 150 mg twice daily. Monitor patients for excessive or prolonged sedation.

Carcinogenesis, Mutagenesis, and Impairment of Fertility

There was no indication of tumorigenic or carcinogenic effects in life-span studies in mice and rats at dosages up to 2,000 mg/kg/day.

Ranitidine was not mutagenic in standard bacterial tests (Salmonella, Escherichia coli) for mutagenicity at concentrations up to the maximum recommended for these assays.

In a dominant lethal assay, a single oral dose of 1,000 mg/kg to male rats was without effect on the outcome of 2 matings per week for the next 9 weeks.

Information for Patients

- Keep Ranitidine Tablets in the original container (bottle) and protect from moisture.
- After the first opening of the bottle, discard unused tablets after 3 months (90 days), or by the expiration date on the bottle, whichever is sooner.
- If more than one bottle is dispensed, open only one bottle at a time. Store additional bottles without opening until needed for dosing.
- At the time of dosing, remove one tablet from the bottle. Immediately close the bottle, secure the cap, and keep the bottle tightly closed.
- Keep the desiccant in the bottle.

Pregnancy

Teratogenic Effects

Reproduction studies have been performed in rats and rabbits at doses up to 160 times the human dose and have revealed no evidence of impaired fertility or harm to the fetus due to Ranitidine Tablets. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed.

Nursing Mothers

Ranitidine is secreted in human milk. Caution should be exercised when Ranitidine Tablets are administered to a nursing mother.

Pediatric Use

The safety and effectiveness of Ranitidine Tablets have been established in the age-group of 1 month to 16 years for the treatment of duodenal and gastric ulcers, gastroesophageal reflux disease and erosive esophagitis, and the maintenance of healed duodenal and gastric ulcer. Use of Ranitidine Tablets in this age group is supported by adequate and well-controlled studies in adults, as well as additional pharmacokinetic data in pediatric patients and an analysis of the published literature (see CLINICAL PHARMACOLOGY: Pediatrics and DOSAGE AND ADMINISTRATION: Pediatric Use).

Safety and effectiveness in pediatric patients for the treatment of pathological hypersecretory conditions or the maintenance of healing of erosive esophagitis have not been established.

Safety and effectiveness in neonates (less than 1 month of age) have not been established (see CLINICAL PHARMACOLOGY: Pediatrics).

Geriatric Use

Of the total number of subjects enrolled in US and foreign controlled clinical trials of oral formulations of ranitidine for which there were subgroup analyses, 4,197 were 65 and over, while 899 were 75 and over. No overall differences in safety or effectiveness were observed between these subjects and younger subjects, 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.

This drug is known to be substantially excreted by the kidney and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, caution should be exercised in dose selection, and it may be useful to monitor renal function. (See CLINICAL PHARMACOLOGY: Pharmacokinetics: Geriatrics and DOSAGE AND ADMINISTRATION: Dosage Adjustment for Patients with Impaired Renal Function).

ADVERSE REACTIONS

The following have been reported as events in clinical trials or in the routine management of patients treated with Ranitidine Tablets. The relationship to therapy with Ranitidine Tablets has been unclear in many cases. Headache, sometimes severe, seems to be related to administration of Ranitidine Tablets.

Central Nervous System

Rarely, malaise, dizziness, somnolence, insomnia, and vertigo. Rare cases of reversible mental confusion, agitation, depression, and hallucinations have been reported, predominantly in severely ill elderly patients. Rare cases of reversible blurred vision suggestive of a change in accommodation have been reported. Rare reports of reversible involuntary motor disturbances have been received.

Cardiovascular

As with other H₂-blockers, rare reports of arrhythmias such as tachycardia, bradycardia, atrioventricular block, and premature ventricular beats.

Gastrointestinal

Constipation, diarrhea, nausea/vomiting, abdominal discomfort/pain, and rare reports of pancreatitis.

Hepatic

There have been occasional reports of hepatocellular, cholestatic, or mixed hepatitis, with or without jaundice. In such circumstances, ranitidine should be immediately discontinued. These events are usually reversible, but in rare circumstances death has occurred. Rare cases of hepatic failure have also been reported. In normal volunteers, SGPT values were increased to at least twice the pretreatment levels in 6 of 12 subjects receiving 100 mg intravenously 4 times daily for 7 days, and in 4 of 24 subjects receiving 50 mg intravenously 4 times daily for 5 days.

Musculoskeletal

Rare reports of arthralgias and myalgias.

Hematologic

Blood count changes (leukopenia, granulocytopenia, and thrombocytopenia) have occurred in a few patients. These were usually reversible. Rare cases of agranulocytosis, pancytopenia, sometimes with narrow hypoplasia, and aplastic anemia and exceedingly rare cases of acquired immune hemolytic anemia have been reported.

Endocrine

Controlled studies in animals and man have shown no stimulation of any pituitary hormone by Ranitidine Tablets and no antiadrenogenic activity, and cimetidine-induced gynecomastia and impotence in hypersecretory patients have resolved when Ranitidine Tablets has been substituted.

However, occasional cases of impotence and loss of libido have been reported in male patients receiving Ranitidine Tablets, but the incidence did not differ from that in the general population. Rare cases of breast symptoms and conditions, including galactorrhea and gynecomastia, have been reported in both males and females.

Integumentary

Rash, including rare cases of erythema multiforme. Rare cases of alopecia and vasculitis.

Respiratory

A large epidemiological study suggested an increased risk of developing pneumonia in current users of histamine-2-receptor antagonists (H₂RAs) compared with patients who had stopped H₂RA treatment, with an observed adjusted relative risk of 1.63 (95% CI, 1.07-2.48). However, a causal relationship between use of H₂RAs and pneumonia has not been established.

Other

Rare cases of hypersensitivity reactions (e.g., bronchospasm, fever, rash, eosinophilia), anaphylaxis, angioneurotic edema, acute interstitial nephritis, and small increases in serum creatinine.

To report SUSPECTED ADVERSE REACTIONS, contact Rising Pharma Holdings, Inc. at 1-844-874-7464 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

OVERDOSAGE

There has been limited experience with overdose. Reported acute ingestions of up to 18 g orally have been associated with transient adverse effects similar to those encountered in normal clinical experience (see ADVERSE REACTIONS). In addition, abnormalities of gait and hypotension have been reported.

When overdose occurs, the usual measures to remove unabsorbed material from the gastrointestinal tract, clinical monitoring, and supportive therapy should be employed.

Studies in dogs receiving dosages of Ranitidine, in excess of 225 mg/kg/day have shown muscular tremors, vomiting, and rapid respiration. Single oral doses of 1,000 mg/kg in mice and rats were not lethal. Intravenous LD₅₀ values in mice and rats were 77 and 83 mg/kg, respectively.

DOSAGE AND ADMINISTRATION

Active Duodenal Ulcer

The current recommended adult oral dosage of Ranitidine Tablets for duodenal ulcer is 150 mg twice daily. An alternative dosage of 300 mg once daily after the evening meal or at bedtime can be used for patients in whom dosing convenience is important. The advantages of one treatment regimen compared with the other in a particular patient population have yet to be demonstrated (see Clinical Trials: Active Duodenal Ulcer). Smaller doses have been shown to be equally effective in inhibiting gastric acid secretion in US studies, and several foreign trials have shown that 100 mg twice daily is as effective as the 150 mg dose.

Antacid should be given as needed for relief of pain (see CLINICAL PHARMACOLOGY: Pharmacokinetics).

Maintenance of Healing of Duodenal Ulcers

The current recommended adult oral dosage is 150 mg at bedtime. Pathological Hypersecretory Conditions (such as Zollinger - Ellison syndrome): The current recommended adult oral dosage is 150 mg twice daily. In some patients it may be necessary to administer Ranitidine Tablets USP, 150 mg doses more frequently. Dosages should be adjusted to individual patient needs, and should continue as long as clinically indicated. Dosages up to 6 g/day have been employed in patients with severe disease.

Benign Gastric Ulcer

The current recommended adult oral dosage is 150 mg twice daily.

Maintenance of Healing of Gastric Ulcers

The current recommended adult oral dosage is 150 mg at bedtime.

GERD

The current recommended adult oral dosage is 150 mg twice daily.

Erosive Esophagitis

The current recommended adult oral dosage is 150 mg 4 times daily.

Maintenance of Healing of Erosive Esophagitis

The current recommended adult oral dosage is 150 mg twice daily.

Pediatric Use

The safety and effectiveness of Ranitidine Tablets have been established in the age group of 1 month to 16 years. There is insufficient information about the pharmacokinetics of Ranitidine Tablets in neonatal

patients (less than 1 month of age) to make dosing recommendations.

The following 3 subsections provide dosing information for each of the pediatric indications.

Treatment of Duodenal and Gastric Ulcers

The recommended oral dose for the treatment of active duodenal and gastric ulcers is 2 to 4 mg/kg twice daily to a maximum of 300 mg/day. This recommendations is derived from adult clinical studies and pharmacokinetic data in pediatric patients.

Maintenance of Healing of Duodenal and Gastric Ulcers

The recommended oral dose for the maintenance of healing of duodenal and gastric ulcers is to 2 to 4 mg/kg once daily to a maximum of 150 mg/day. This recommendation is derived from adult clinical studies and pharmacokinetic data in pediatric patients.

Treatment of GERD and Erosive Esophagitis

Although limited data exist for these conditions in pediatric patients, published literature supports a dosage of 5 to 10 mg/kg/day, usually given as 2 divided doses.

Dosage Adjustment for Patients with Impaired Renal Function

On the basis of experience with a group of subjects with severely impaired renal function treated with Ranitidine Tablets, the recommended dosage in patients with a creatinine clearance < 50 mL/min is 150 mg every 24 hours. Should the patient's condition require, the frequency of dosing may be increased to every 12 hours or even further with caution. Hemodialysis reduces the level of circulating ranitidine. Ideally, the dosing schedule should be adjusted so that the timing of a scheduled dose coincides with the end of hemodialysis.

Elderly patients are more likely to have decreased renal function, therefore caution should be exercised in dose selection, and it may be useful to monitor renal function (see CLINICAL PHARMACOLOGY: Pharmacokinetics: Geriatrics and PRECAUTIONS : Geriatric Use).

HOW SUPPLIED

Ranitidine Tablets USP, 150 mg (Ranitidine HCl equivalent to 150 mg of ranitidine) are orange, round shaped tablets debossed with 'V' on one side and '37' on the other side.

They are available in following count

- Bottles of 30 tablets (NDC 64980-636-03)

Ranitidine Tablets USP, 300 mg (Ranitidine HCl equivalent to 300 mg of ranitidine) are yellow, oval shaped tablets debossed with 'V' on one side and '03' on the other side.

They are available in following count

- Bottles of 30 tablets (NDC 64980-637-03)

Contains color additives including FD&C Yellow No.5

(tartrazine)

Storage: Store at 15°C to 30°C (59°F to 86°F) [see USP controlled room temperature] in a dry place.

Dispense in the original container.

Note to the Pharmacist: Inform the patient after first opening, store the tablets in the original bottle for up to 3 months (90 days). If the tablets are not used within 3 months (90 days), discard unused tablets. The discard after date should be noted on the bottle.

Replace cap securely after each opening. Keep the bottle tightly closed.

Do not remove desiccant from bottle.

Protect from light.

*MULTISTIX is a registered trademark of Bayer Healthcare LLC.

Distributed by:
Rising Pharma Holdings, Inc.
East Brunswick, NJ 08816

Manufactured by:



VKT Pharma Private Limited
Srikakulam District, India-532-409

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**Rising
PHARMACEUTICALS
NDC 64980-636-03, 64980-637-03
Ranitidine Tablets USP, 150 mg
30 Tablets Rx only
Ranitidine Tablets USP, 300 mg
30 Tablets Rx only**

Product Information
Product Type HUMAN PRESCRIPTION DRUG Item Code
(Source) NDC:64980-636
Route of Administration ORAL
Active Ingredient/Active Moiety
Ingredient Name Basis of
Strength Strength
RANITIDINE HYDROCHLORIDE (UNII: BK764651HM)
(RANITIDINE - RANITIDINE 150 mg
®)
UNII:884KT10YB7) RANITIDINE 150 mg
Inactive Ingredients
Ingredient Name Strength
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)
CROSCARMELLOSE SODIUM (UNII: M280L1HH48)

