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CIMETIDINE HYDROCHLOBID **OBAL SOLUTION** MG #11913 Rev 050:02 3

Cimetidine is a histamine H₂-receptor antagonist. Chemically it is N"-cyano-N-methyl-N-[2-[[(5-methyl-1 H-imidazol-4-yl) methyl]thio]-ethyl], guanidine.

The molecular formula for cimetidine hydrochloride is C₁₀H₁₆N₆S•HCl and the molecular weight is 288.80. the structural formula of cimetidine hydrochloride is:



Cimetidine contains an imidazole ring, and is chemically related to histamine

Cimetidine has a bitter taste and characteristic odor.

Solubility Characteristics: Cimetidine hydrochloride is freely soluble in water, soluble in alcohol, very slightly soluble in chloroform and practically insoluble in ether.

Each 5 mL (1 teaspoonful), for oral administration, contains cimetidine hydrochloride equivalent to cimetidine, 300 mg achohu, 2.8%. In addition, the oral solution contains the following inactive ingredients: FD&C Vellow No. 6, hydrochlorido acid, methylparaben, natural orange flavor, polyxoyethylene, polyxoypropylene glycol, propylene glycol, propylparaben, purified water, saccharin sodium, sodium chloride, dibasic sodium phosphate anhydrous, and sorbiol. The pH range is 5.1 to 5.7.

CLINICAL PHARMACOLOGY

Cimetidine competitively inhibits the action of histamine at the histamine H_a recentors of the narietal cells and thus is a histamine H₂ receptor antagonist.

Cimetidine is not an anticholinergic agent. Studies have shown that cimetidine inhibits both daytime and nocturnal basal gastric acid secretion. Cimetidine also inhibits gastric acid secretion stimulated by food, histamine, pentagastrin, caffeine and insulin,

Antisecretory Activity

1 hou

3 hou

1) Acid Secretion: Nocturnal: Cimetidine 800 mg orally at bedtime reduces mean hourly H+ activity by greater than 85% over an eight-hour period in duodenal ulcer patients, with no effect on davitime acid secretion. Cimetidine 1600 mg orally b.s. produces 100% inhibition of mean hourly H+ activity over an eight-hour period in duodenal ulcer patients, but also reduces H+ activity by 35% for an additional five hours into the following morning. Cimetidine 400 mg b.i.d. and 30 mg g.i.d. decrease nocturnal acid secretion in a dose-related manner, i.e., 47% to 83% over a six-to eight-hour period and 54% over a nine-hour period, respectively.

Food Stimulated: During the first hour after a standard experimental meal, oral cimetidine 300 mg inhibited pastric acid secretion in duodenal ulcer patients by at least 50%. During the subsequent two hours cimetidine inhibited gastric acid secretion by at least 75%.

The effect of a 300 mg breakfast dose of cimetidine continued for at least four hours and there was partial suppression of the rise in gastric acid secretion following the luncheon meal in duodenal ulcer patients. This suppression of gastric acid output was enhanced and could be maintained by another 300 mg dose of cimetidine given with lunch.

In another study, cimetidine 300 mg was given with the meal increased gastric pH as compared

	Mean Gastric pH Cimetidine	Placebo		
	3.5	2.6		
S	3.1	1.6		
S	3.8	1.9		
S	6.1	2.2		

24-Hour Mean H+ Activity: Cimetidine 800 mg h.s., 400 mg b.i.d. and 300 mg q.i.d. all provide a similar moderate (less than 60%) level of 24-hour acid suppression. However, the 800 mg h s regimen exerts its entire effect on nocturnal acid, and does not affect daytime gastric physiology

Chemically Stimulated: Oral cimetidine significantly inhibited gastric acid secretion stimulated by betazole (an isomer of histamine), pentagastrin, caffeine and insulin as follows:

Stimulant	Stimulant Dose	Cimetidine	% Inhibition
Betazole	1.5 mg/kg (sc)	300 mg (po)	85% at 2 1/2 hou
Pentagastrin	6 mcg/kg/hr (iv)	100 mg/hr (iv)	60% at 1 hour
Caffeine	5 mg/kg/hr (iv)	300 mg (po)	100% at 1 hour
Insulin	0.03 units/kg/hr (iv)	100 mg/hr (iv)	82% at 1 hour

When food and betazole were used to stimulate secretion, inhibition of hydrogen in concentration usually ranged from 45 to 75% and the inhibition of volume ranged from 30 to 65%

2) Pensin: Oral cimetidine 300 mg reduced total pensin output as a result of the decrease in volume of gastric juice 3) Intrinsic Factor: Intrinsic factor secretion was studied with betazole as a stimulant. Oral

cimetidine 300 mg inhibited the rise in intrinsic factor concentration produced by betazole, but some intrinsic factor was secreted at all times.

Lower Esophageal Sphincter Pressure and Gastric Emptying Cimetidine has no effect on lower esophageal sphincter (LES) pressure or the rate of gastri

Pharmacokinetic

Cimetidine is rapidly absorbed after oral administration and peak levels occur in 45 to 90 minutes. The half-life of cimetidine is approximately 2 hours. Both oral and parenteral (I.V. or I.M.) administration provide comparable periods of therapeutically effective blood levels blood concentrations remain above that required to provide 80% inhibition of basal gastric acid secretion for 4 to 5 hours following a dose of 300 mg

The principal route of excretion of cimetidine is the urine. Following parenteral administration, four weeks most of the drug is excreted as the parent compound; following oral administration, the drug is more extensively metabolized, the sulfavide being the main metabolize. Following a single oral dose 48% of the drug is recovered from the urine after 24 hours as the parent compound. Following LV or LM, administration, approximately 75% of the drug is recovered from the urine after 24 hours as the parent compound.

Clinical Trials

Cimetidine has been shown to be effective in the treatment of active duodenal ulcer and at reduced dosage, in maintenance therapy following healing of active ulcers. 1/2 hours

Active Rundenal Illear: Cimetidine accelerates the rate of duodenal ulcer healing. Healing rates reported in LLS and foreign controlled trials with oral cimetidine are summarized below beginning with the regimen providing the lowest nocturnal dose.

Duodenal Ulcer Healing Rates With Various Oral Cimetidine Dosage Regimens*

	300 mg	400 mg	800 mg	160 h	
legimen	q.i.d.	b.i.d.	h.s.		
veek 4	68%	73%	80%	8	
veek 6	80%	80%	89%		
veek 8		92%	94%		

*Averages from controlled clinical trials.

A U.S., double-blind, placebo-controlled, dose-ranging study demonstrated that all once-daily at bedtime (h.s.) cimetidine regimens were superior to placebo in ulcer healing and that cimetidine 800 mg h.s. healed 75% of patients at four weeks. The healing rate with 800 mg h.s. was significantly superior to 400 mg h.s. (66%) and not significantly different from 1600 mg h.s. (81%).

In the U.S. dose-ranging trial, over 80% of patients receiving cimetidine 800 mg h.s. experience nonturnal pain relief after one day. Relief from daytime pain was reported in approximately 70% of patients after two days. As with ulcer healing, the 800 mg h.s. dose was superior to 400 mg h.s. and not different from 1600 mg h.s.

In foreign, double-blind studies with cimetidine 800 mg h.s. 79 to 85% of patients were healed at

While short-term treatment with cimetidine can result in complete healing of the duodenal ulcer acute therapy will not prevent ulcer recurrence after cimetidine has been discontinued. Some follow-up studies have reported that the rate of recurrence once therapy was discontinued was slightly higher for nationts healed on cimetidine than for nationts healed on other forms of therapy: however, the cimetidine-treated patients generally had more severe disease.

proven effective as maintenance therapy following healing of active duodenal ulce

In numerous placeho-controlled studies conducted worldwide the percent of pa observed ulcers at the end of 1 year's therapy with cimetidine 400 mg h.s. was sir (10% to 45%) than in natients receiving placeho (44% to 70%). Thus, from 55 natients were maintained free of observed ulcers at the end of 1 year with cimetic

Factors such as smoking, duration and severity of disease, gender, and genetic tr contribute to variations in actual percentages.

Trials of other anti-ulcer therapy whether placeho-controlled positive-controlled demonstrated a range of results similar to that seen with cimetidine

Active Benion Gastric Illcer

Cimetidine has been shown to be effective in the short-term treatment of active ben

In a multicenter, double-blind U.S. study, patients with endoscopically confirmed ulcer were treated with cimetidine 300 mg four times a day or with placeho for F were limited to those with ulcers ranging from 0.5 to 2.5 cm in size. Endoscopical healing at 6 weeks was seen in significantly "more cimeticline-treated nations than receiving placebo, as shown below: Cimetidine 14/63 (22%) total at week 6 n<0.05

In a similar multicenter U.S. study of the 800 mg h.s. oral regimen, the endoscor healing rates were:

Cimetidine

63/83 (76%)* total at week 6 n = 0.009

Similarly, in worldwide double-blind clinical studies, endoscopically evaluated be ulcer healing rates were consistently higher with cimetidine than with placebo.

Gastroesophageal Reflux Disease

In two multicenter, double-blind, placebo-controlled studies in patients with pastr reflux disease (GEBD) and endosconically proven erosions and/or ulcers, cimetidine was

Maintenance Therapy in Duodenal Ulcer: Treatment with a reduced dose of cimetidine has been significantly more effective than placebo in healing lesions. The endoscopically confirmed

nai uicers.	near	ind rates were:				
t of patients with was significantly lower	Trial		Cimetidine (800 mg b.i.d.)	Cimetidine (400 mg q.i.d.)	Placebo	p-Value (800 mg b.i.d. vs. placebo)
m 55% to 90% of cimetidine 400 mg h.s.	1	Week 6 Week 12	45% 60%	52% 66%	26% 42%	0.02 0.02
netic traits may	2	Week 6 Week 12	50% 67%		20% 36%	<0.01 <0.01
trolled or open, have	In these trails cimetidine was superior to placebo by most measures in improving symptoms of day- and night-time heartburn, with many of the differences statistically significant. The q.i.d. regimen was generally somewhat better than the b.i.d. regimen where these were compared.					
tive benign gastric ulcer.	Pathological Hypersecretory Conditions (such as Zollinger-Ellison Syndrome) Cimetidine significantly inhibited gastric acid secretion and reduced occurrence of diarrhea, anorexia and pain in patients with pathological hypersecretion associated with Zollinger-Ellison Syndrome, systemic mastocytosis and multiple endocrine adenomas. Use of cimetidine was also followed by healing of intractable ulcers.					
firmed benign gastric o for 6 weeks. Patients scopically confirmed						
Placebo /63 (11%) //67 (45%) doscopically confirmed	(1) S	CATIONS AND etidine Hydroch Short-term treat s rarely reason Administration-I of pain. Howeve recommended, scientidine.	USAGE loride Oral Solution ment of active du to use cimetidine a Duodenal Ulcer). O er, simultaneous ad since antacids have	n is indicated in: odenal ulcer. Most p at full dosage for long: Concomitant antacids dministration of oral c e been reported to intr	atients heal within er than 6 to 8 week should be given as imetidine and anta erfere with the abso	4 weeks and there is (see Dosage and needed for relief cids is not orption of oral
Placebo 4/80 (55%)	(2) I	Maintenance th active ulcer. Pa n.s. for periods	erapy for duodena atients have been n of up to 5 years.	I ulcer patients at rem naintained on continu	duced dosage afte ed treatment with o	r healing of cimetidine 400 mg
ted benign gastric	(3) S	Short-term treat usefulness of tre	tment of active be eatment periods of	nign gastric ulcer. The longer than 8 weeks.	here is no informat	ion concerning
h gastroesophageal	(4) E	endoscopy. Tre symptoms. The	sophageal reflux of atment is indicated use of cimetidine	lisease (GERD). Eros l for 12 weeks for hea beyond 12 weeks has	sive esophagitis dia ling of lesions and not been establish	agnosed by control of ned (see Dosage

and Administration-GFRD)

(5) The treatment of pathological hypersecretory conditions (i.e., Zollinger-Ellison Syndrome, systemic mastocytosis, multiple endocrine adenomas).

ONTRAINDICATION

imetidine is contraindicated for patients known to have hypersensitivity to the product.

PRECAUTIONS

General: Symptomatic response to cimetidine therapy does not preclude the presence of a astric malignancy. There have been rare reports of transient bealing of pastric ulcers despite ubsequently documented malignancy

Reversible confusional states (see Adverse Reactions) have been observed on occasion redominantly, but not exclusively, in severely ill patients. Advancing age (50 or more years) ar preexisting liver and/or renal disease appear to be contributing factors. In some patients these confusional states have been mild and have not required discontinuation of timelidine therapy. In cases where discontinuation was judged necessary, the condition usually cleared within 3 to days of drug withdrawal.

Orun interactions: Cimetidine, apparently through an effect on certain microsomal enzyme wstems, has been reported to reduce the hepatic metabolism of warfarin-type anticoagular phenytoin, propranolol, nifedipine, chlordiazepoxide, diazepam, certain tricýclic antidepressar lidocaine, theophylline and metronidazole, thereby delaying elimination and increasing blood levels of these drugs

linically significant effects have been reported with the warfarin anticoagulants; therefore, c monitoring of prothrombin time is recommended, and adjustment of the anticoagulant dose m be presessary when cimetidine is administered concomitantly. Interaction with phenytoin lidocaine and theophylline has also been reported to produce adverse clinical effects.

However, a crossover study in healthy subjects receiving either cimetidine 300 mg g i d, or 80 mg h.s. concomitantly with a 300 mg b.i.d. dosage of theophylline extended-release table demonstrated less alteration in steady-state theophylline peak serum levels with the 800 mg h.s. (Note: All patients receiving theophylline should be monitored appropriately regardless of oncomitant drug therapy

losage of the drugs mentioned above and other similarly metabolized drugs, particularly those f low the aneutic ratio or in patients with renal and/or henatic impairment, may require diustment when starting or stopping concomitantly administered cimetidine to maintain ntimum theraneutic blood levels

Alteration of pH may affect absorption of certain drugs (e.g., ketoconazole). If these products are needed, they should be given at least 2 hours before cimetidine administration.

Additional clinical experience may reveal other drugs affected by the concomitant administration of cimetidine

Carcinogenesis, Mutagenesis, Impairment of Fertility: In a 24-month toxicity study conducted in rats. at dose levels of 150, 378 and 950 mg/kg/day (approximately 8 to 48 times the recommended human dose), there was a small increase in the incidence of benian Levdia ce The commission of human cose, have what a sharing metabolism of the metabolism of being response to tumors in each dose group; when the combined drug-treated groups and control groups were compared, this increase reached statistical significance. In a subsequent 24-month study, there were no differences between the rats receiving 150 mg/kg/dg/and nft be untreated controls. lowever a statistically significant increase in benign Levdin cell tumor incidence was seen in rat that received 378 and 950 mg/kg/day. These tumors were common in control groups as well as treated groups and the difference became apparent only in aged rats.

Cimetidine has demonstrated a weak antiandrogenic effect. In animal studies this was manifested as reduced prostate and seminal vesicle weights. However, there was no impairment of mating performance or fertility, nor any harm to be the fetus in these animals at doses 8 to 48 times the full therapeutic dose of cimetidine as compared with controls. The cases of avnecomastia seen in patients treated for one month or longer may be related to this effect.

In human studies, cimetidine has been shown to have no effect on spermatogenesis, sperm count, motility, morphology or in vitro fertilizing capacity.

Pregnancy: Teratogenic Effects. Pregnancy Category B: Reproduction studies have been performed in rats, rabbits and mice at doses up to 40 times the normal human dose and have revealed no evidence of impaired fertility or harm to the fetus due to cimetidine. There are however, no adequate and well-controlled studies in pregnant women. Because animal reproductive studies are not always predictive of human response. this drug should be used durin pregnancy only if clearly needed.

Nursing Mothers: Cimetidine is secreted in human milk and as a general rule, nursing should not he undertaken while a natient is on a drug

Pediatric Use: Clinical experience in pediatric patients is limited. Therefore, cimetidine therapy cannot be recommended for pediatric patients under 16, unless, in the judgement of the physician, anticipated benefits outweigh the potential risks. In very limited experience, doses of 20 to 40 mg/kg per day have been used.

Immunocompromised Patients: In immunocompromised patients, decreased gastric acidity including that produced by acid-suppressing agents such as cimetidine, may increase the possibility of a hyperinfection of strongyloidiasis.

ADVERSE REACTIONS

To report SUSPECTED ADVERSE REACTIONS, contact Hi-Tech Pharmacal Co., Inc. at 1-800-262-9010 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch

Adverse effects reported in patients taking cimetidine are described below by body system. Incidence figures of 1 in 100 and greater are generally derived from controlled clinical studies.

Gastrointestinal: Diarrhea (usually mild) has been reported in approximately 1 in 100 patients.

CNS: Headaches ranging from mild to severe have been reported in 3.5% of 924 patients taking 1600 mg/day, 2.1% of 2,225 patients taking 800 mg/day and 2.3% of 1,897 patients taking placebo. Dizziness and somnolence (usually mild) have been reported in approximately 1 in 100 patients on either 1600 mg/day or 800 mg/day.

Reversible confusional states, e.g., mental confusion, agitation, psychosis, depression, anxiety, hallucinations, disorientation, have been reported predominantly, but not exclusively, in severely, ill national to be usually developed within 2 to 3 days of initiation of cimetidine therapy and the drug, have been reported. have cleared within 3 to 4 days of discontinuation of the drug.

Endocrine: Gynecomastia has been reported in patients treated for one month or longer. In patients being treated for pathological hypersecretory states, this occurred in about 4% of cases while in all others the incidence was 0.3% to 1% in various studies. No evidence of induced endocrine dysfunction was found, and the condition remained unchanged or returned toward normal with continuing cimetidine treatment.

Reversible impotence has been reported in patients with pathological hypersecretory disorders. e.g., Zollinger-Ellison Syndrome, receiving cimetidine, particularly in high doses, for at least 12 months (range 12 to 79 months, mean 38 months). However, in large-scale surveillance studies at regular dosage, the incidence has not exceeded that commonly reported in the general

Hematologic: Decreased white blood cell counts in cimetidine-treated patients (approxim per 100,000 patients), including agranulocytosis (approximately 3 per million patients), have been reported, including a few reports of recurrence on rechallenge. Most of these reports were in patients who had serious concomitant illnesses and received drugs and/or treatment know to

produce neutropenia. Thrombocytopenia (approximately 3 per million patients) and very rarely cases of nancytopenia or aplastic anemia have also been reported. As with some other H2-receptor antagonists, there have been extremely rare reports of immune hemolytic anemia. they did not progress with continued therapy and returned to normal at the end of the therapy There have been rare reports of cholestatic or mixed cholestatic-henatocellular effects. These were usually reversible. Recause of the predominance of cholestatic features severe naranchymal injury is considered highly unlikely. However as in occasional liver injury with othe Ho-recentor antagonists in exceedingly rare circumstances fatal outcomes have been reported

There has been reported a single case of biopsy-proven periportal hepatic fibrosis in a patient receiving cimetidine

Rare cases of pancreatitis, which cleared on withdrawal of the drug, have been reported.

Hypersensitivity: Rare cases of fever and allergic reactions including anaphylaxis and hypersensitivity vasculitis, which cleared on withdrawal of the drug, have been reported.

Renal: Small, possibly dose-related increases in plasma creatinine, presumably due to competition for renal tubular secretion, are not uncommon and do not signify deeriorating rena function. Bare cases of interstitial neohritis and urinary retention, which cleared on withdrawal

Cardiovascular: Bare cases of bradycardia tachycardia and A-V beart block have been reported with Ha-receptor antagonists.

Musculoskeletal: There have been rare reports of reversible arthralgia and myalgia; exacerbation of joint symptoms in patients with preexisting arthritis has also been reported. Such symptoms have usually been alleviated by a reduction in cimetidine dosage. Bare cases of polymyositis have been reported but no causal relationship has been established

Integumental: Mild rash and, very rarely, cases of severe generalized skin reactions including Stevens, Johnson syndrome, enidermal perrolysis, enthema multiforme, extaliative dermatitis and generalized exfoliative erythroderma have been reported with Ha-receptor antagonists Reversible alonecia has been reported very rarely

Immune Function: There have been extremely rare reports of strongyloidiasis hyperinfection in immunocompromised patients.

OVERDOSACE

Studies in animals indicate that toxic doses are associated with respiratory failure and tachycardia that may be controlled by assisted respiration and the administration of a heta-blocker

Reported acute ingestions orally of up to 20 grams have been associated with transient adverse effects similar to those encountered in normal clinical experience. The usual measures to remove unabsorbed material from the gastrointestinal tract, clinical monitoring, and suppor therapy should be employed.

There have been reports of severe CNS symptoms, including unresponsiveness, following ingestion of between 20 and 40 grams of cimetidine, and extremely rare reports following concomitant use of multiple CNS-active medications and ingestion of cimetidine at doses less than 20 grams. An elderly, terminally ill dehydrated natient with organic brain syndrome. receiving concomitant antipsychotic agents and cimetidine 4800 mg intravenously over 24-hour period experienced mental deterioration with reversal on Cimetidine discontinuation

There have been two deaths in adults who have been reported to innest over 40 grams orally on a Maintenance Therapy for Duodenal Illicer: In those patients requiring maintenance therapy the single occasion.

DOSAGE AND ADMINISTRATION Duodenal Illcer

Active Duodenal Ulcer: Clinical studies have indicated that suppression of nocturnal acid is most important factor in duodenal ulcer healing (see Clinical Pharmacology-Antisecretory Activity-Acid Secretion). This is supported by recent clinical trials (see Clinical Pharmacology-Clinical Trials Duodanal Illear-Active Duodanal Illear) Therefore there is apparent rationale, except for familiarity with use, for treating with anything other than a once-daily at bedtime dosage regimen (h.s.).

In a U.S. oral dose-ranging study of 400 mg h.s., 800 mg h.s. and 1600 mg h.s., a continu dose response relationship for ulcer healing was demonstrated

However, 800 mg h.s. is the dose of choice for most patients, as it provides a high healing rate (the difference between 800 mg h.s. and 1600 mg h.s. being small), maximal pain relief, a decreased potential for drug interactions (see Precardings-Prun Interactions) and maximal patient convenience Patients unhealed at 4 weeks or those with persistent symptoms have heer to benefit from two to four weeks of continued therapy

It has been shown that nationts who both have an endosconically demonstrated ulcer larger than 1 cm and are also heavy smokers (i.e., smoke one pack of ciparettes or more per day) are more

difficult to heal. There is some evidence which suggests that more rapid healing can be achieved in this subnonulation with cimetidine 1600 mg at bedtime. While early nain relief with either 800 mg. h.s. or 1600 mg h.s. is equivalent in all patients, 1600 mg h.s. provides an appropriate alternative when it is important to ensure bealing within four weeks for this subpopulation. Alternatively approximately 94% of all natients will also heal in eight weeks with cimetidine 800 mg h s Other cimetidine regimens in the U.S. which have been shown to be effective are: 300 mg four times daily, with meals and at bedtime, the original regimen with which U.S. physicians have the most experience, and 400 mg twice daily, in the morning and at bedtime (see Clinical Pharmacology Clinical Trials-Duodenal Ulcer-Duodenal Ulcer).

Concomitant antacids should be given as needed for relief of pain. However, simultaneou administration of cimetidine and antacids is not recommended since antacids have been reported to interfere with the absorption of cimetidine.

While healing with cimetidine often occurs during the first week or two, treatment should h continued for 4 to 6 weeks unless healing has been demonstrated by endoscopic examination.

recommended adult oral dose is 400 mg at bedtime

Active Beninn Gastric Ulcer

The recommended adult oral dosage for short-term treatment of active benign gastric ulcer is 800 mg h.s., or 300 mg four times a day with meals and at bedtime. Controlled clinical studies were limited to six weeks of treatment (see Clinical Pharmacology-Clinical Trials). 800 mg h.s. is the preferred regimen for most patients based upon convenience and reduced potential for drug interactions. Symptomatic response to cimetidine does not preclude the presence of a pastric malignancy. It is important to follow gastric ulcer patients to assure rapid progress to complete

Frosive Gastroesonhaneal Reflux Disease (GFRD)

The recommended adult oral dosage for the treatment of erosive esophanitis that has been liannosed by endoscony is 1600 mg daily in divided doses (800 mg h i d, or 400 mg g i d) for 12 weeks. The use of cimetidine herond 12 weeks has not been established

Pathological Hypersecretory Conditions (such as Zollinger-Ellison Syndrome) Recommended adult oral dosage: 300 mg four times a day with meals and at bedtime. In some adjusted to individual patient needs, but should not suitable wrong frequently. Doses should be continue as long as clinically indicated.

Dosage Adjustments for Patients with Impaired Renal Function

Patients with severely impaired renal function have been treated with cimetidine. However such dosage has been very limited. On the basis of this experience the recommended dosage is 300 mg every 12 hours orally or by intravenous injection. Should the patient's condition require the frequency of dosing may be increased to every 8 hours or even further with caution. In severe renal failure accumulation may occur and the lowest frequency of dosing compatible with an adequate nation response should be used. When liver imnairment is also present further reductions in dosane may be necessary. Hemodialusis reduces this level of circulation cimetidine. Ideally, the dosage schedule should be adjusted so that the timing of a scheduled dose coincides with the end of hemodialvsis

HOW SUPPLIED

Rx Only

Cimetidine Hydrochloride Oral Solution is a clear yellow, orange flavored solution containing 300 mo of cimetidine ner 5 ml (teaspoonful) supplied in 8 fl or (237 ml) amber PET containers NDC 50383-050-08 and 16 fl oz (473 ml) amber PET containers NDC 50383-050-16

Store at controlled room temperature, 15°-30°C (59°-86°F).

Dispense in a tight, light-resistant container.

Manufactured by HI-TECH PHARMACAL CO INC Amityville, NY 11701



NDC 50383-050-08

CIMETIDINE HYDROCHLORIDE **ORAL SOLUTION** 300 mg / 5 mL*

Rx only

8 fl oz (237 mL)

HI-TECH PHARMACAL CO., INC Amitvville, NY 11701

Rev 050:02 3/09



ach 5 mL (1 teaspoonful) contains:		
metidine hydrochloride		
uivalent to cimetidine	300	mg
cohol	2.	8%

USUAL DOSAGE: See package insert for dosage and full prescribing information.

Dispense in a tight, light-resistant container as define in the USP.

Important: Use safety closures when dispensing this product unless otherwise directed by physician or requested by purchaser.

Store at controlled room temperature 15°-30°C (59°-86°F).

