

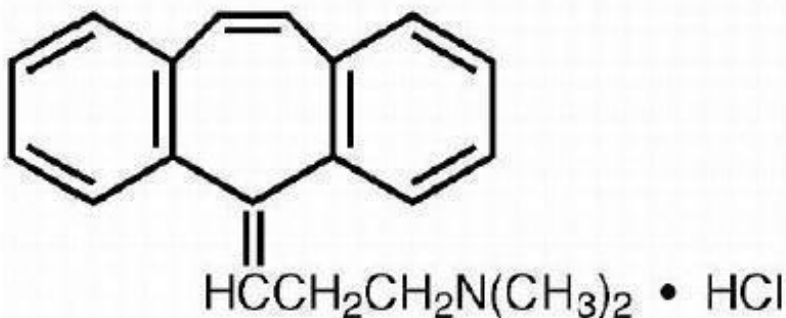
**CYCLOBENZAPRINE HYDROCHLORIDE- cyclobenzaprine hydrochloride tablet, film coated**  
NCS HealthCare of KY, Inc dba Vanguard Labs

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**CYCLOBENZAPRINE HYDROCHLORIDE TABLETS, USP**

**DESCRIPTION**

Cyclobenzaprine hydrochloride is a white, crystalline tricyclic amine salt with the empirical formula  $C_{20}H_{21}N \cdot HCl$  and a molecular weight of 311.9. It has a melting point of  $217^{\circ}C$  and a  $pK_a$  of 8.47 at  $25^{\circ}C$ . It is freely soluble in water and alcohol, sparingly soluble in isopropanol, and insoluble in hydrocarbon solvents. If aqueous solutions are made alkaline, the free base separates.

Cyclobenzaprine hydrochloride is designated chemically as 3-(5H-dibenzo [a,d] cyclohepten-5-ylidene)-N,N-dimethyl-1-propanamine hydrochloride, and has the following structural formula:



Each 5 mg Cyclobenzaprine hydrochloride tablet for oral administration contains 5 mg Cyclobenzaprine hydrochloride.

Each 10 mg Cyclobenzaprine hydrochloride tablet for oral administration contains 10 mg Cyclobenzaprine hydrochloride.

Each tablet contains the following inactive ingredients: lactose monohydrate, microcrystalline cellulose, croscarmellose sodium, silicon dioxide, magnesium stearate, carnauba wax, titanium dioxide, polyethylene glycol, and iron oxide yellow.

In addition, 5 mg tablets also contain polyvinyl alcohol, talc, lecithin, and FD&C yellow # 6 / sunset yellow FCF aluminum lake.

In addition, 10 mg tablets also contain D&C yellow # 10 aluminum lake, FD&C yellow # 6 aluminum lake and hypromellose.

**CLINICAL PHARMACOLOGY**

Cyclobenzaprine hydrochloride relieves skeletal muscle spasm of local origin without interfering with muscle function. It is ineffective in muscle spasm due to central nervous system disease.

Cyclobenzaprine reduced or abolished skeletal muscle hyperactivity in several animal models. Animal studies indicate that cyclobenzaprine does not act at the neuromuscular junction or directly on skeletal muscle. Such studies show that cyclobenzaprine acts primarily within the central nervous system at brain stem as opposed to spinal cord levels, although its action on the latter may contribute to its overall skeletal muscle relaxant activity. Evidence suggests that the net effect of cyclobenzaprine is a reduction of tonic somatic motor activity, influencing both gamma ( $\gamma$ ) and alpha ( $\alpha$ ) motor systems.

Pharmacological studies in animals showed a similarity between the effects of cyclobenzaprine and the structurally related tricyclic antidepressants, including reserpine antagonism, norepinephrine potentiation, potent peripheral and central anticholinergic effects, and sedation. Cyclobenzaprine caused slight to moderate increase in heart rate in animals.

### ***Pharmacokinetics***

Estimates of mean oral bioavailability of cyclobenzaprine range from 33% to 55%. Cyclobenzaprine exhibits linear pharmacokinetics over the dose range 2.5 mg to 10 mg, and is subject to enterohepatic circulation. It is highly bound to plasma proteins. Drug accumulates when dosed three times a day, reaching steady-state within 3-4 days at plasma concentrations about four-fold higher than after a single dose. At steady state in healthy subjects receiving 10 mg t.i.d. (n=18), peak plasma concentration was 25.9 ng/mL (range, 12.8-46.1 ng/mL), and area under the concentration-time (AUC) curve over an 8-hour dosing interval was 177 ng.hr/mL (range, 80-319 ng.hr/mL).

Cyclobenzaprine is extensively metabolized, and is excreted primarily as glucuronides via the kidney. Cytochromes P-450 3A4, 1A2, and, to a lesser extent, 2D6, mediate N-demethylation, one of the oxidative pathways for cyclobenzaprine. Cyclobenzaprine is eliminated quite slowly, with an effective half-life of 18 hours (range 8-37 hours; n=18); plasma clearance is 0.7 L/min.

The plasma concentration of cyclobenzaprine is generally higher in the elderly and in patients with hepatic impairment. (See PRECAUTIONS, Use in the Elderly and PRECAUTIONS, Impaired Hepatic Function.)

### ***Elderly***

In a pharmacokinetic study in elderly individuals ( $\geq 65$  yrs old), mean (n=10) steady-state cyclobenzaprine AUC values were approximately 1.7 fold (171.0 ng.hr/mL, range 96.1-255.3) higher than those seen in a group of eighteen younger adults (101.4 ng.hr/mL, range 36.1-182.9) from another study. Elderly male subjects had the highest observed mean increase, approximately 2.4 fold (198.3 ng.hr/mL, range 155.6-255.3 versus 83.2 ng.hr/mL, range 41.1-142.5 for younger males) while levels in elderly females were increased to a much lesser extent, approximately 1.2 fold (143.8 ng.hr/mL, range 96.1-196.3 versus 115.9 ng.hr/mL, range 36.1-182.9 for younger females).

In light of these findings, therapy with Cyclobenzaprine hydrochloride tablets, USP in the elderly should be initiated with a 5 mg dose and titrated slowly upward.

### ***Hepatic Impairment***

In a pharmacokinetic study of sixteen subjects with hepatic impairment (15 mild, 1 moderate per Child-Pugh score), both AUC and C<sub>max</sub> were approximately double the values seen in the healthy control group. Based on the findings, Cyclobenzaprine hydrochloride tablets, USP should be used with caution in subjects with mild hepatic impairment starting with the 5 mg dose and titrating slowly upward. Due to the lack of data in subjects with more severe hepatic insufficiency, the use of Cyclobenzaprine hydrochloride tablets, USP in subjects with moderate to severe impairment is not recommended.

No significant effect on plasma levels or bioavailability of Cyclobenzaprine hydrochloride tablets, USP or aspirin was noted when single or multiple doses of the two drugs were administered concomitantly. Concomitant administration of Cyclobenzaprine hydrochloride tablets, USP and naproxen or diflunisal was well tolerated with no reported unexpected adverse effects. However combination therapy of Cyclobenzaprine hydrochloride tablets, USP with naproxen was associated with more side effects than therapy with naproxen alone, primarily in the form of drowsiness. No well-controlled studies have been performed to indicate that Cyclobenzaprine hydrochloride tablets, USP enhance the clinical effect of aspirin or other analgesics, or whether analgesics enhance the clinical effect of Cyclobenzaprine hydrochloride tablets, USP in acute musculoskeletal conditions.

## **CLINICAL STUDIES**

Eight double-blind controlled clinical studies were performed in 642 patients comparing Cyclobenzaprine hydrochloride tablets, USP 10 mg, diazepam\*\*, and placebo. Muscle spasm, local pain and tenderness, limitation of motion, and restriction in activities of daily living were evaluated. In three of these studies there was a significantly greater improvement with Cyclobenzaprine hydrochloride tablets, USP than with diazepam, while in the other studies the improvement following both treatments was comparable.

Although the frequency and severity of adverse reactions observed in patients treated with Cyclobenzaprine hydrochloride tablets, USP were comparable to those observed in patients treated with diazepam, dry mouth was observed more frequently in patients treated with Cyclobenzaprine hydrochloride tablets, USP and dizziness more frequently in those treated with diazepam. The incidence of drowsiness, the most frequent adverse reaction, was similar with both drugs.

The efficacy of Cyclobenzaprine hydrochloride tablets, USP 5 mg was demonstrated in two seven-day, double-blind, controlled clinical trials enrolling 1405 patients. One study compared Cyclobenzaprine hydrochloride tablets, USP 5 and 10 mg t.i.d. to placebo; and a second study compared Cyclobenzaprine hydrochloride tablets, USP 5 and 2.5 mg t.i.d. to placebo. Primary endpoints for both trials were determined by patient-generated data and included global impression of change, medication helpfulness, and relief from starting backache. Each endpoint consisted of a score on a 5-point rating scale (from 0 or worst outcome to 4 or best outcome). Secondary endpoints included a physician's evaluation of the presence and extent of palpable muscle spasm.

Comparisons of Cyclobenzaprine hydrochloride tablets, USP 5 mg and placebo groups in both trials established the statistically significant superiority of the 5 mg dose for all three primary endpoints at day 8 and, in the study comparing 5 and 10 mg, at day 3 or 4 as well. A similar effect was observed with Cyclobenzaprine hydrochloride tablets, USP 10 mg (all endpoints). Physician-assessed secondary endpoints also showed that Cyclobenzaprine hydrochloride tablets, USP 5 mg were associated with a greater reduction in palpable muscle spasm than placebo.

Analysis of the data from controlled studies shows that Cyclobenzaprine hydrochloride tablets, USP produce clinical improvement whether or not sedation occurs.

\*\*VALIUM® (diazepam, Roche)

#### *Surveillance Program*

A post-marketing surveillance program was carried out in 7607 patients with acute musculoskeletal disorders, and included 297 patients treated with Cyclobenzaprine hydrochloride tablets, USP 10 mg for 30 days or longer. The overall effectiveness of Cyclobenzaprine hydrochloride tablets, USP was similar to that observed in the double-blind controlled studies; the overall incidence of adverse effects was less (see ADVERSE REACTIONS).

## **INDICATIONS AND USAGE**

Cyclobenzaprine hydrochloride tablets, USP is indicated as an adjunct to rest and physical therapy for relief of muscle spasm associated with acute, painful musculoskeletal conditions.

Improvement is manifested by relief of muscle spasm and its associated signs and symptoms, namely, pain, tenderness, limitation of motion, and restriction in activities of daily living.

Cyclobenzaprine hydrochloride tablets, USP should be used only for short periods (up to two or three weeks) because adequate evidence of effectiveness for more prolonged use is not available and because muscle spasm associated with acute, painful musculoskeletal conditions is generally of short duration and specific therapy for longer periods is seldom warranted.

Cyclobenzaprine hydrochloride tablets, USP have not been found effective in the treatment of spasticity associated with cerebral or spinal cord disease, or in children with cerebral palsy.

## CONTRAINDICATIONS

Hypersensitivity to any component of this product.

Concomitant use of monoamine oxidase (MAO) inhibitors or within 14 days after their discontinuation. Hyperpyretic crisis seizures and deaths have occurred in patients receiving cyclobenzaprine (or structurally similar tricyclic antidepressants) concomitantly with MAO inhibitor drugs.

Acute recovery phase of myocardial infarction, and patients with arrhythmias, heart block or conduction disturbances, or congestive heart failure.

Hyperthyroidism.

## WARNINGS

### *Serotonin Syndrome*

The development of a potentially life-threatening serotonin syndrome has been reported with Cyclobenzaprine Hydrochloride when used in combination with other drugs, such as selective serotonin reuptake inhibitors (SSRIs), serotonin norepinephrine reuptake inhibitors (SNRIs), tricyclic antidepressants (TCAs), tramadol, bupropion, meperidine, verapamil, or (MAO) inhibitors. The concomitant use of Cyclobenzaprine Hydrochloride with MAO inhibitors is contraindicated (see CONTRAINDICATIONS). Serotonin syndrome symptoms may include mental status changes (e.g., confusion, agitation, hallucinations), autonomic instability (e.g., diaphoresis, tachycardia, labile blood pressure, hyperthermia), neuromuscular abnormalities (e.g., tremor, ataxia, hyperreflexia, clonus, muscle rigidity), and/or gastrointestinal symptoms (e.g., nausea, vomiting, diarrhea). Treatment with Cyclobenzaprine Hydrochloride and any concomitant serotonergic agents should be discontinued immediately if the above reactions occur and supportive symptomatic treatment should be initiated. If concomitant treatment with Cyclobenzaprine Hydrochloride and other serotonergic drugs is clinically warranted, careful observation is advised, particularly during treatment initiation or dose increases (see PRECAUTIONS, Drug Interactions).

Cyclobenzaprine is closely related to the tricyclic antidepressants, e.g., amitriptyline and imipramine. In short term studies for indications other than muscle spasm associated with acute musculoskeletal conditions, and usually at doses somewhat greater than those recommended for skeletal muscle spasm, some of the more serious central nervous system reactions noted with the tricyclic antidepressants have occurred (see WARNINGS, below, and ADVERSE REACTIONS).

Tricyclic antidepressants have been reported to produce arrhythmias, sinus tachycardia, prolongation of the conduction time leading to myocardial infarction and stroke.

Cyclobenzaprine hydrochloride tablets, USP may enhance the effects of alcohol, barbiturates, and other CNS depressants.

## PRECAUTIONS

### **General**

Because of its atropine-like action, Cyclobenzaprine hydrochloride tablets, USP should be used with caution in patients with a history of urinary retention, angle-closure glaucoma, increased intraocular pressure, and in patients taking anticholinergic medication.

### *Impaired Hepatic Function*

The plasma concentration of cyclobenzaprine is increased in patients with hepatic impairment (see CLINICAL PHARMACOLOGY, Pharmacokinetics and CLINICAL PHARMACOLOGY, Hepatic Impairment).

These patients are generally more susceptible to drugs with potentially sedating effects, including cyclobenzaprine. Cyclobenzaprine hydrochloride tablets, USP should be used with caution in subjects with mild hepatic impairment starting with a 5 mg dose and titrating slowly upward. Due to the lack of data in subjects with more severe hepatic insufficiency, the use of Cyclobenzaprine hydrochloride tablets, USP in subjects with moderate to severe impairment is not recommended.

### *Information for Patients*

Cyclobenzaprine hydrochloride tablets, USP, especially when used with alcohol or other CNS depressants, may impair mental and/or physical abilities required for performance of hazardous tasks, such as operating machinery or driving a motor vehicle. In the elderly, the frequency and severity of adverse events associated with the use of cyclobenzaprine, with or without concomitant medications, is increased. In elderly patients, Cyclobenzaprine hydrochloride tablets, USP should be initiated with a 5 mg dose and titrated slowly upward.

Patients should be cautioned about the risk of serotonin syndrome with the concomitant use of Cyclobenzaprine Hydrochloride and other drugs, such as SSRIs, SNRIs, TCAs, tramadol, bupropion, meperidine, verapamil, or MAO inhibitors. Patients should be advised of the signs and symptoms of serotonin syndrome, and be instructed to seek medical care immediately if they experience these symptoms (see WARNINGS, and see PRECAUTIONS, Drug Interactions).

### *Drug Interactions*

Cyclobenzaprine hydrochloride tablets may have life-threatening interactions with MAO inhibitors. (see CONTRAINDICATIONS.) Postmarketing cases of serotonin syndrome have been reported during combined use of Cyclobenzaprine Hydrochloride and other drugs, such as SSRIs, SNRIs, TCAs, tramadol, bupropion, meperidine, verapamil, or MAO inhibitors. If concomitant treatment with Cyclobenzaprine Hydrochloride and other serotonergic drugs is clinically warranted, careful observation is advised, particularly during treatment initiation or dose increases (see WARNINGS).

Cyclobenzaprine hydrochloride tablets, USP may enhance the effects of alcohol, barbiturates, and other CNS depressants.

Tricyclic antidepressants may block the antihypertensive action of guanethidine and similarly acting compounds.

Tricyclic antidepressants may enhance the seizure risk in patients taking tramadol.†

†ULTRAM® (tramadol HCl tablets, Ortho-McNeil Pharmaceutical)

ULTRACET® (tramadol HCl and acetaminophen tablets, Ortho-McNeil Pharmaceutical)

### *Carcinogenesis, Mutagenesis, Impairment of Fertility*

In rats treated with Cyclobenzaprine hydrochloride tablets, USP for up to 67 weeks at doses of approximately 5 to 40 times the maximum recommended human dose, pale, sometimes enlarged, livers were noted and there was a dose-related hepatocyte vacuolation with lipidosis. In the higher dose groups this microscopic change was seen after 26 weeks and even earlier in rats which died prior to 26 weeks; at lower doses, the change was not seen until after 26 weeks.

Cyclobenzaprine did not affect the onset, incidence or distribution of neoplasia in an 81-week study in the mouse or in a 105-week study in the rat.

At oral doses of up to 10 times the human dose, cyclobenzaprine did not adversely affect the reproductive performance or fertility of male or female rats. Cyclobenzaprine did not demonstrate mutagenic activity in the male mouse at dose levels of up to 20 times the human dose.

### *Pregnancy*

Pregnancy Category B: Reproduction studies have been performed in rats, mice and rabbits at doses up

to 20 times the human dose, and have revealed no evidence of impaired fertility or harm to the fetus due to Cyclobenzaprine hydrochloride tablets, USP. 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*

It is not known whether this drug is excreted in human milk. Because cyclobenzaprine is closely related to the tricyclic antidepressants, some of which are known to be excreted in human milk, caution should be exercised when Cyclobenzaprine hydrochloride tablets, USP are administered to a nursing woman.

#### *Pediatric Use*

Safety and effectiveness of Cyclobenzaprine hydrochloride tablets, USP in pediatric patients below 15 years of age have not been established.

#### *Use in the Elderly*

The plasma concentration of cyclobenzaprine is increased in the elderly (see CLINICAL PHARMACOLOGY, Pharmacokinetics, CLINICAL PHARMACOLOGY, Elderly). The elderly may also be more at risk for CNS adverse events such as hallucinations and confusion, cardiac events resulting in falls or other sequelae, drug-drug and drug-disease interactions. For these reasons, in the elderly, cyclobenzaprine should be used only if clearly needed. In such patients Cyclobenzaprine hydrochloride tablets, USP should be initiated with a 5 mg dose and titrated slowly upward.

### **ADVERSE REACTIONS**

Incidence of most common adverse reactions in the 2 double-blind‡, placebo-controlled 5 mg studies (incidence of > 3% on Cyclobenzaprine hydrochloride tablets, USP 5 mg):

	Cyclobenzaprine hydrochloride tablets, USP 5 mg N=464	Cyclobenzaprine hydrochloride tablets, USP 10 mg N=249	Placebo N=469
Drowsiness	29%	38%	10%
Dry Mouth	21%	32%	7%
Fatigue	6%	6%	3%
Headache	5%	5%	8%

Adverse reactions which were reported in 1% to 3% of the patients were: abdominal pain, acid regurgitation, constipation, diarrhea, dizziness, nausea, irritability, mental acuity decreased, nervousness, upper respiratory infection, and pharyngitis.

The following list of adverse reactions is based on the experience in 473 patients treated with Cyclobenzaprine hydrochloride tablets, USP 10 mg in additional controlled clinical studies, 7607 patients in the post-marketing surveillance program, and reports received since the drug was marketed. The overall incidence of adverse reactions among patients in the surveillance program was less than the incidence in the controlled clinical studies.

The adverse reactions reported most frequently with Cyclobenzaprine hydrochloride tablets, USP were drowsiness, dry mouth and dizziness. The incidence of these common adverse reactions was lower in the surveillance program than in the controlled clinical studies:

‡ **Note: Cyclobenzaprine hydrochloride tablets, USP 10 mg data are from one clinical trial. Cyclobenzaprine hydrochloride tablets, USP 5 mg and placebo data are from two studies.**

	Clinical Studies With Cyclobenzaprine hydrochloride tablets, USP 10 mg	Surveillance Program With Cyclobenzaprine hydrochloride tablets, USP 10 mg
Drowsiness	39%	16%
Dry Mouth	27%	7%
Dizziness	11%	3%

Among the less frequent adverse reactions, there was no appreciable difference in incidence in controlled clinical studies or in the surveillance program. Adverse reactions which were reported in 1% to 3% of the patients were: fatigue/tiredness, asthenia, nausea, constipation, dyspepsia, unpleasant taste, blurred vision, headache, nervousness, and confusion.

The following adverse reactions have been reported in post-marketing experience or with an incidence of less than 1% of patients in clinical trials with the 10 mg tablet:

*Body as a Whole:* Syncope; malaise.

*Cardiovascular:* Tachycardia; arrhythmia; vasodilatation; palpitation; hypotension.

*Digestive:* Vomiting; anorexia; diarrhea; gastrointestinal pain; gastritis; thirst; flatulence; edema of the tongue; abnormal liver function and rare reports of hepatitis, jaundice and cholestasis.

*Hypersensitivity:* Anaphylaxis; angioedema; pruritus; facial edema; urticaria; rash.

*Musculoskeletal:* Local weakness.

*Nervous System and Psychiatric:* Seizures, ataxia; vertigo; dysarthria; tremors; hypertonia; convulsions; muscle twitching; disorientation; insomnia; depressed mood; abnormal sensations; anxiety; agitation; psychosis, abnormal thinking and dreaming; hallucinations; excitement; paresthesia; diplopia, serotonin syndrome.

*Skin:* Sweating.

*Special Senses:* Ageusia; tinnitus.

*Urogenital:* Urinary frequency and/or retention.

### **Causal Relationship Unknown**

Other reactions, reported rarely for Cyclobenzaprine hydrochloride tablets, USP under circumstances where a causal relationship could not be established or reported for other tricyclic drugs, are listed to serve as alerting information to physicians:

*Body as a whole:* Chest pain; edema.

*Cardiovascular:* Hypertension; myocardial infarction; heart block; stroke.

*Digestive:* Paralytic ileus, tongue discoloration; stomatitis; parotid swelling.

*Endocrine:* Inappropriate ADH syndrome.

*Hematic and Lymphatic:* Purpura; bone marrow depression; leukopenia; eosinophilia; thrombocytopenia.

*Metabolic, Nutritional and Immune:* Elevation and lowering of blood sugar levels; weight gain or loss.

*Musculoskeletal:* Myalgia.

*Nervous System and Psychiatric:* Decreased or increased libido; abnormal gait; delusions; aggressive behavior; paranoia; peripheral neuropathy; Bell's palsy; alteration in EEG patterns; extrapyramidal symptoms.

*Respiratory:* Dyspnea.

*Skin:* Photosensitization; alopecia.

*Urogenital:* Impaired urination; dilatation of urinary tract; impotence; testicular swelling; gynecomastia; breast enlargement; galactorrhea.

## **DRUG ABUSE AND DEPENDENCE**

Pharmacologic similarities among the tricyclic drugs require that certain withdrawal symptoms be considered when Cyclobenzaprine hydrochloride tablets, USP are administered, even though they have not been reported to occur with this drug. Abrupt cessation of treatment after prolonged administration rarely may produce nausea, headache, and malaise. These are not indicative of addiction.

## **OVERDOSAGE**

Although rare, deaths may occur from overdosage with Cyclobenzaprine hydrochloride tablets, USP. Multiple drug ingestion (including alcohol) is common in deliberate cyclobenzaprine overdose. As management of overdose is complex and changing, it is recommended that the physician contact a poison control center for current information on treatment. Signs and symptoms of toxicity may develop rapidly after cyclobenzaprine overdose; therefore, hospital monitoring is required as soon as possible. The acute oral LD50 of Cyclobenzaprine hydrochloride tablets, USP is approximately 338 and 425 mg/kg in mice and rats, respectively.

### *MANIFESTATIONS*

The most common effects associated with cyclobenzaprine overdose are drowsiness and tachycardia. Less frequent manifestations include tremor, agitation, coma, ataxia, hypertension, slurred speech, confusion, dizziness, nausea, vomiting, and hallucinations. Rare but potentially critical manifestations of overdose are cardiac arrest, chest pain, cardiac dysrhythmias, severe hypotension, seizures, and neuroleptic malignant syndrome. Changes in the electrocardiogram, particularly in QRS axis or width, are clinically significant indicators of cyclobenzaprine toxicity. Other potential effects of overdosage include any of the symptoms listed under ADVERSE REACTIONS.

## **MANAGEMENT**

### *General*

As management of overdose is complex and changing, it is recommended that the physician contact a poison control center for current information on treatment.

In order to protect against the rare but potentially critical manifestations described above, obtain an ECG and immediately initiate cardiac monitoring. Protect the patient's airway, establish an intravenous line and initiate gastric decontamination. Observation with cardiac monitoring and observation for signs of CNS or respiratory depression, hypotension, cardiac dysrhythmias and/or conduction blocks, and seizures is necessary. If signs of toxicity occur at any time during this period, extended monitoring is required. Monitoring of plasma drug levels should not guide management of the patient. Dialysis is probably of no value because of low plasma concentrations of the drug.

### *Gastrointestinal Decontamination*

All patients suspected of an overdose with Cyclobenzaprine hydrochloride tablets, USP should receive gastrointestinal decontamination. This should include large volume gastric lavage followed by activated charcoal. If consciousness is impaired, the airway should be secured prior to lavage and emesis is contraindicated.

### *Cardiovascular*

A maximal limb-lead QRS duration of  $\geq 0.10$  seconds may be the best indication of the severity of the overdose. Serum alkalinization, to a pH of 7.45 to 7.55, using intravenous sodium bicarbonate and hyperventilation (as needed), should be instituted for patients with dysrhythmias and/or QRS widening.



A pH >7.60 or a pCO<sub>2</sub> <20 mmHg is undesirable. Dysrhythmias unresponsive to sodium bicarbonate therapy/hyperventilation may respond to lidocaine, bretylium or phenytoin. Type 1A and 1C antiarrhythmics are generally contraindicated (e.g., quinidine, disopyramide, and procainamide).

### *CNS*

In patients with CNS depression, early intubation is advised because of the potential for abrupt deterioration. Seizures should be controlled with benzodiazepines or, if these are ineffective, other anticonvulsants (e.g. phenobarbital, phenytoin). Physostigmine is not recommended except to treat life-threatening symptoms that have been unresponsive to other therapies, and then only in close consultation with a poison control center.

### *PSYCHIATRIC FOLLOW-UP*

Since overdose is often deliberate, patients may attempt suicide by other means during the recovery phase. Psychiatric referral may be appropriate.

### *PEDIATRIC MANAGEMENT*

The principles of management of child and adult overdosages are similar. It is strongly recommended that the physician contact the local poison control center for specific pediatric treatment.

## **DOSAGE AND ADMINISTRATION**

For most patients, the recommended dose of Cyclobenzaprine hydrochloride tablets, USP is 5 mg three times a day. Based on individual patient response, the dose may be increased to 10 mg three times a day. Use of Cyclobenzaprine hydrochloride tablets, USP for periods longer than two or three weeks is not recommended. (see INDICATIONS AND USAGE).

Less frequent dosing should be considered for hepatically impaired or elderly patients (see PRECAUTIONS, Impaired Hepatic Function, and PRECAUTIONS Use in the Elderly).

## **HOW SUPPLIED**

Cyclobenzaprine hydrochloride tablets, USP are available in 5 mg and 10 mg dosage strength.

The 5 mg tablets are supplied as orange film coated round shaped biconvex tablets debossed "K 6" on one side and plain on other side.

Blistercards of 15, NDC 0615-8182-05

Blistercards of 30, NDC 0615-8182-39

The 10 mg tablets are supplied as yellow colored film coated round shaped biconvex tablets debossed "K 7" on one side and plain on other side.

**Store** at 25°C (77°F); excursions permitted to 15-30°C (59-86°F). [see USP Controlled Room Temperature].

**Dispense** in a tight, well-closed, container as defined in the USP, with a child-resistant closure (as required).

Manufactured by:

KVK-TECH, INC.

110 Terry Drive

Newtown, PA 18940-1850

Item ID # 006013/06 12/14

Manufacturer's Code: 10702



**PACKAGE LABEL, PRINCIPAL DISPLAY PANEL - 5 mg**

VLI NDC 0615-8182-39  
**Cyclobenzaprine Hydrochloride**  
 Tabs USP 5 mg  
 LOT 8182-  
 EXP  
 8182-AA-39 v00  
 QTY  
 30

(KVK-Tech, Inc. NDC 10702-006-01)  
**Cyclobenzaprine Hydrochloride**  
 Tabs USP 5 mg

Mfg By KVK-Tech, Inc.  
 (NDC 10702-006-01)  
 PKG BY VANGARD  
 GLASGOW, KY 42141

			16	8
30	23	15	7	
29	22	14	6	
28	21	13	5	
27	20	12	4	
26	19	11	3	
25	18	10	2	
24	17	9	1	

**Omnicare** The overall configuration of this package is a trademark of Omnicare, Inc.

**Received:**

24	16	8
31	23	15
30	22	14
29	21	13
28	20	12
27	19	11
26	18	10
25	17	9

Start Date \_\_\_\_\_ Start Time \_\_\_\_\_

STORE AT 20° - 25° C (68° - 77° F)  
 (SEE USP CONTROLLED ROOM TEMPERATURE)

Dispense in a tight, well-closed container.

See package insert or label for dosage information  
**FOR INSTITUTIONAL USE ONLY**

Pkg by Vanguard, Glasgow, KY 42141 Cyclobenzaprine Hydrochloride Tab USP 5 mg LOT 8182 - EXP 	Pkg by Vanguard, Glasgow, KY 42141 Cyclobenzaprine Hydrochloride Tab USP 5 mg LOT 8182 - EXP 	Pkg by Vanguard, Glasgow, KY 42141 Cyclobenzaprine Hydrochloride Tab USP 5 mg LOT 8182 - EXP 	8182-AA-39 v00 Vanguard Labs Glasgow, KY 42141 LOT 8182 - EXP 
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**CYCLOBENZAPRINE HYDROCHLORIDE**

cyclobenzaprine hydrochloride tablet, film coated

**Product Information**

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0615-8182(NDC:10702-006)
<b>Route of Administration</b>	ORAL		

Active Ingredient/Active Moiety				
Ingredient Name		Basis of Strength	Strength	
CYCLOBENZAPRINE HYDROCHLORIDE (UNII: 0VE05JYS2P) (CYCLOBENZAPRINE - UNII:69O5WQQ5TJ)		CYCLOBENZAPRINE HYDROCHLORIDE	5 mg	
Inactive Ingredients				
Ingredient Name			Strength	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)				
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)				
CROSCARMELLOSE SODIUM (UNII: M28OL1HH48)				
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)				
MAGNESIUM STEARATE (UNII: 70097M6I30)				
CARNAUBA WAX (UNII: R12CBM0EIZ)				
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)				
POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)				
FERRIC OXIDE YELLOW (UNII: EX438O2MRT)				
POLYVINYL ALCOHOL, UNSPECIFIED (UNII: 532B59J990)				
TALC (UNII: 7SEV7J4R1U)				
LECITHIN, SOYBEAN (UNII: 1DI56QDM62)				
FD&C YELLOW NO. 6 (UNII: H77VEI93A8)				
Product Characteristics				
Color	ORANGE	Score	no score	
Shape	ROUND	Size	8mm	
Flavor		Imprint Code	K;6	
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0615-8182-05	15 in 1 BLISTER PACK; Type 0: Not a Combination Product	02/13/2020	
2	NDC:0615-8182-39	30 in 1 BLISTER PACK; Type 0: Not a Combination Product	01/10/2019	
Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
ANDA	ANDA078048	07/31/2014		

**Labeler** - NCS HealthCare of KY, Inc dba Vanguard Labs (050052943)

### Establishment

Name	Address	ID/FEI	Business Operations
NCS HealthCare of KY, Inc dba Vanguard Labs		050052943	REPACK(0615-8182)

