

DILTIAZEM HYDROCHLORIDE- diltiazem hydrochloride capsule, extended release
NCS HealthCare of KY, Inc dba Vanguard Labs

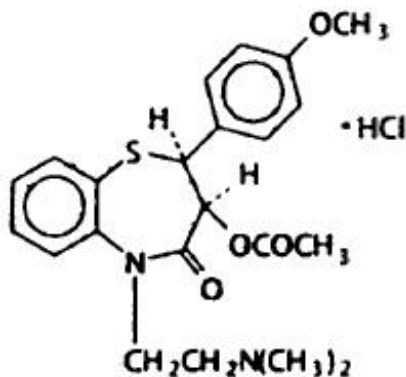
DILTIAZEM HYDROCHLORIDE Extended-Release Capsules, USP

(Once-a-Day Dosage)

R_x only

DESCRIPTION

Diltiazem hydrochloride is a calcium ion cellular influx inhibitor (slow channel blocker or calcium antagonist). Chemically, diltiazem hydrochloride is 1,5-Benzothiazepin-4(5*H*)-one,3-(acetyloxy)-5-[2-(dimethylamino)ethyl]-2, 3-dihydro-2-(4-methoxyphenyl)-, monohydrochloride, (+)-*cis*-. The chemical structure is:



Diltiazem hydrochloride is a white to off-white crystalline powder with a bitter taste. It is soluble in water, methanol, and chloroform. It has a molecular weight of 450.98. Diltiazem Hydrochloride Extended-Release Capsule (Once-a-Day Dosage), is formulated as a once-a-day extended-release capsule containing 120 mg, 180 mg, 240 mg, or 300 mg diltiazem hydrochloride.

Also contains: D&C Yellow #10, FD&C Green #3, gelatin, hypromellose, magnesium stearate, microcrystalline cellulose, ethyl acrylate and methyl methacrylate copolymer, polysorbate, povidone, simethicone emulsion, sucrose stearate, talc, and titanium dioxide.

Diltiazem Hydrochloride Extended-Release Capsule meets USP Dissolution Test 12.

For oral administration.

CLINICAL PHARMACOLOGY

The therapeutic effects of Diltiazem Hydrochloride Extended-Release Capsules (Once-a-Day Dosage) are believed to be related to its ability to inhibit the cellular influx of calcium ions during membrane depolarization of cardiac and vascular smooth muscle.

Mechanisms of Action

Hypertension: Diltiazem produces its antihypertensive effect primarily by relaxation of vascular smooth muscle and the resultant decrease in peripheral vascular resistance. The magnitude of blood pressure reduction is related to the degree of hypertension; thus hypertensive individuals experience an antihypertensive effect, whereas there is only a modest fall in blood pressure in normotensives.

Angina: Diltiazem has been shown to produce increases in exercise tolerance, probably due to its ability to reduce myocardial oxygen demand. This is accomplished via reductions in heart rate and systemic blood pressure at submaximal and maximal workloads. Diltiazem has been shown to be a potent dilator of coronary arteries, both epicardial and subendocardial. Spontaneous and ergonovine-induced coronary artery spasms are inhibited by diltiazem.

In animal models, diltiazem interferes with the slow inward (depolarizing) current in excitable tissue. It causes excitation-contraction uncoupling in various myocardial tissues without changes in the configuration of the action potential. Diltiazem produces relaxation of coronary vascular smooth muscle and dilation of both large and small coronary arteries at drug levels that cause little or no negative inotropic effect. The resultant increases in coronary blood flow (epicardial and subendocardial) occur in ischemic and nonischemic models and are accompanied by dose-dependent decreases in systemic blood pressure and decreases in peripheral resistance.

Hemodynamic and Electrophysiologic Effects

Like other calcium channel antagonists, diltiazem decreases sinoatrial and atrioventricular conduction in isolated tissues and has a negative inotropic effect in isolated preparations. In the intact animal, prolongation of the AH interval can be seen at higher doses.

In man, diltiazem prevents spontaneous and ergonovine-provoked coronary artery spasm. It causes a decrease in peripheral vascular resistance and a modest fall in blood pressure in normotensive individuals and, in exercise tolerance studies in patients with ischemic heart disease, reduces the heart rate-blood pressure product for any given workload. Studies, primarily in patients with good ventricular function, have not revealed evidence of a negative inotropic effect; cardiac output, ejection fraction, and left ventricular end diastolic pressure have not been affected. Such data have no predictive value with respect to effects in patients with poor ventricular function, and increased heart failure has been reported in patients with preexisting impairment of ventricular function. There are few data on the interaction of diltiazem and beta-blockers in patients with poor ventricular function. Resting heart rate is usually slightly reduced by diltiazem.

In hypertensive patients, Diltiazem Hydrochloride Extended-Release produces antihypertensive effects both in the supine and standing positions. In a double-blind, parallel, dose-response study utilizing doses ranging from 90 to 540 mg once daily, Diltiazem Hydrochloride Extended-Release Capsules (Once-a-Day Dosage) lowered supine diastolic blood pressure in an apparent linear manner over the entire dose range studied. The changes in diastolic blood pressure, measured at trough, for placebo, 90 mg, 180 mg, 360 mg, and 540 mg were -2.9, -4.5, -6.1, -9.5, and -10.5 mm Hg, respectively. Postural hypotension is infrequently noted upon suddenly assuming an upright position. No reflex tachycardia is associated with the chronic anti-hypertensive effects. Diltiazem decreases vascular resistance, increases cardiac output (by increasing stroke volume), and produces a slight decrease or no change in heart rate. During dynamic exercise, increases in diastolic pressure are inhibited, while maximum achievable systolic pressure is usually reduced. Chronic therapy with diltiazem produces no change or an increase in plasma catecholamines. No increased activity of the renin-angiotensin-aldosterone axis has been observed. Diltiazem reduces the renal and peripheral effects of angiotensin II. Hypertensive animal models respond to diltiazem with reductions in blood pressure and increased urinary output and natriuresis without a change in urinary sodium/potassium ratio.

In a double-blind, parallel dose-response study of doses from 60 mg to 480 mg once daily, Diltiazem Hydrochloride Extended-Release capsules (Once-a-Day Dosage) increased time to termination of exercise in a linear manner over the entire dose range studied. The improvement in time to termination of exercise utilizing a Bruce exercise protocol, measured at trough, for placebo, 60 mg, 120 mg, 240 mg, 360 mg, and 480 mg was 29, 40, 56, 51, 69, and 68 seconds, respectively. As doses of Diltiazem Hydrochloride Extended-Release Capsules (Once-a-Day Dosage) were increased, overall angina frequency was decreased. Diltiazem Hydrochloride Extended-Release capsules (Once-a-Day Dosage), 180 mg once daily, or placebo was administered in a double-blind study to patients receiving

concomitant treatment with long-acting nitrates and/or beta-blockers. A significant increase in time to termination of exercise and a significant decrease in overall angina frequency was observed. In this trial the overall frequency of adverse events in the Diltiazem Hydrochloride Extended-Release Capsules (Once-a-Day Dosage) treatment group was the same as the placebo group.

Intravenous diltiazem in doses of 20 mg prolongs AH conduction time and AV node functional and effective refractory periods by approximately 20%. In a study involving single oral doses of 300 mg of diltiazem hydrochloride in six normal volunteers, the average maximum PR prolongation was 14% with no instances of greater than first-degree AV block. Diltiazem-associated prolongation of the AH interval is not more pronounced in patients with first-degree heart block. In patients with sick sinus syndrome, diltiazem significantly prolongs sinus cycle length (up to 50% in some cases).

Chronic oral administration of diltiazem hydrochloride to patients in doses of up to 540 mg/day has resulted in small increases in PR interval and on occasion produces abnormal prolongation (see **WARNINGS**).

Pharmacokinetics and Metabolism

Diltiazem is well absorbed from the gastrointestinal tract and is subject to an extensive first-pass effect, giving an absolute bioavailability (compared to intravenous administration) of about 40%. Diltiazem undergoes extensive metabolism in which only 2% to 4% of the unchanged drug appears in the urine. Drugs which induce or inhibit hepatic microsomal enzymes may alter diltiazem disposition.

Total radioactivity measurement following short IV administration in healthy volunteers suggests the presence of other unidentified metabolites, which attain higher concentrations than those of diltiazem and are more slowly eliminated; half-life of total radioactivity is about 20 hours compared to 2 to 5 hours for diltiazem.

In vitro binding studies show diltiazem is 70% to 80% bound to plasma proteins. Competitive *in vitro* ligand binding studies have also shown diltiazem binding is not altered by therapeutic concentrations of digoxin, hydrochlorothiazide, phenylbutazone, propranolol, salicylic acid, or warfarin. The plasma elimination half-life following single or multiple drug administration is approximately 3.0 to 4.5 hours. Desacetyl diltiazem is also present in the plasma at levels of 10% to 20% of the parent drug and is 25% to 50% as potent as a coronary vasodilator as diltiazem. Minimum therapeutic plasma diltiazem concentrations appear to be in the range of 50 to 200 ng/mL. There is a departure from linearity when dose strengths are increased; the half-life is slightly increased with dose. A study that compared patients with normal hepatic function to patients with cirrhosis found an increase in half-life and a 69% increase in bioavailability in the hepatically impaired patients. A single study in nine patients with severely impaired renal function showed no difference in the pharmacokinetic profile of diltiazem compared to patients with normal renal function.

Diltiazem Hydrochloride Extended-Release Capsules (Once-a-Day Dosage): When compared to a regimen of diltiazem hydrochloride tablets at steady-state, more than 95% of drug is absorbed from the Diltiazem Hydrochloride Extended-Release capsules formulation. A single 360 mg dose of the capsule results in detectable plasma levels within 2 hours and peak plasma levels between 10 and 14 hours; absorption occurs throughout the dosing interval. When Diltiazem Hydrochloride Extended-Release Capsules (Once-a-Day Dosage) were coadministered with a high fat content breakfast, the extent of diltiazem absorption was not affected. Dose-dumping does not occur. The apparent elimination half-life after single or multiple dosing is 5 to 8 hours. A departure from linearity similar to that seen with diltiazem hydrochloride tablets and Diltiazem Hydrochloride Extended-Release capsules is observed. As the dose of Diltiazem Hydrochloride Extended-Release Capsules (Once-a-Day Dosage) is increased from a daily dose of 120 mg to 240 mg, there is an increase in the area under the curve of 2.7 times. When the dose is increased from 240 mg to 360 mg, there is an increase in the area under the curve of 1.6 times.

In an *in vitro* dissolution study, the release rate of diltiazem from Diltiazem Hydrochloride Extended-

Release capsules increased significantly as the alcohol percentage in the dissolution medium increased. The effect of alcohol on the release rate may lead to a change in the pharmacokinetics of diltiazem, such as a more rapid absorption and/or an increase in the systemic exposure of diltiazem (see **PRECAUTIONS, Drug Interactions**).

INDICATIONS AND USAGE

Diltiazem Hydrochloride Extended-Release Capsules (Once-a-Day Dosage) are indicated for the treatment of hypertension. It may be used alone or in combination with other antihypertensive medications.

Diltiazem Hydrochloride Extended-Release Capsules (Once-a-Day Dosage) are indicated for the management of chronic stable angina and angina due to coronary artery spasm.

CONTRAINDICATIONS

Diltiazem is contraindicated in (1) patients with sick sinus syndrome except in the presence of a functioning ventricular pacemaker, (2) patients with second- or third-degree AV block except in the presence of a functioning ventricular pacemaker, (3) patients with hypotension (less than 90 mm Hg systolic), (4) patients who have demonstrated hypersensitivity to the drug, and (5) patients with acute myocardial infarction and pulmonary congestion documented by x-ray on admission.

WARNINGS

- **Cardiac Conduction:** Diltiazem prolongs AV node refractory periods without significantly prolonging sinus node recovery time, except in patients with sick sinus syndrome. This effect may rarely result in abnormally slow heart rates (particularly in patients with sick sinus syndrome) or second- or third-degree AV block (13 of 3290 patients or 0.40%). Concomitant use of diltiazem with beta-blockers or digitalis may result in additive effects on cardiac conduction. A patient with Prinzmetal's angina developed periods of asystole (2 to 5 seconds) after a single dose of 60 mg of diltiazem (see **ADVERSE REACTIONS**).
- **Congestive Heart Failure:** Although diltiazem has a negative inotropic effect in isolated animal tissue preparations, hemodynamic studies in humans with normal ventricular function have not shown a reduction in cardiac index nor consistent negative effects on contractility (dP/dt). An acute study of oral diltiazem in patients with impaired ventricular function (ejection fraction $24\% \pm 6\%$) showed improvement in indices of ventricular function without significant decrease in contractile function (dP/dt). Worsening of congestive heart failure has been reported in patients with preexisting impairment of ventricular function. Experience with the use of diltiazem in combination with beta-blockers in patients with impaired ventricular function is limited. Caution should be exercised when using this combination.
- **Hypotension:** Decreases in blood pressure associated with diltiazem therapy may occasionally result in symptomatic hypotension.
- **Acute Hepatic Injury:** Mild elevations of transaminases with and without concomitant elevation in alkaline phosphatase and bilirubin have been observed in clinical studies. Such elevations were usually transient and frequently resolved even with continued diltiazem treatment. In rare instances, significant elevations in enzymes such as alkaline phosphatase, LDH, SGOT, SGPT, and other phenomena consistent with acute hepatic injury have been noted. These reactions tended to occur early after therapy initiation (1 to 8 weeks) and have been reversible upon discontinuation of drug therapy. The relationship to diltiazem is uncertain in some cases, but probable in some (see **PRECAUTIONS**).

PRECAUTIONS

General

Diltiazem hydrochloride is extensively metabolized by the liver and excreted by the kidneys and in bile. Laboratory parameters of renal and hepatic function should be monitored at regular intervals. In subacute and chronic dog and rat studies designed to produce toxicity, high doses of diltiazem were associated with hepatic damage. In special subacute hepatic studies, oral doses of 125 mg/kg and higher in rats were associated with histological changes in the liver which were reversible when the drug was discontinued. In dogs, doses of 20 mg/kg were also associated with hepatic changes; however, these changes were reversible with continued dosing.

Dermatological events (see **ADVERSE REACTIONS**) may be transient and may disappear despite continued use of diltiazem. However, skin eruptions progressing to erythema multiforme and/or exfoliative dermatitis have also been infrequently reported. Should a dermatologic reaction persist, the drug should be discontinued.

Drug Interactions

Because of the potential for additive effects, slow titration is warranted in patients receiving diltiazem concomitantly with other agents known to affect cardiac contractility and/or conduction (see **WARNINGS**). Pharmacologic studies indicate that there may be additive effects in prolonging AV conduction when using beta-blockers or digitalis concomitantly with diltiazem (see **WARNINGS**).

Diltiazem is both a substrate and an inhibitor of the cytochrome P450 3A4 enzyme system. Other drugs that are specific substrates, inhibitors, or inducers of this enzyme system may have a significant impact on the efficacy and side effect profile of diltiazem. Patients taking other drugs that are substrates of CYP450 3A4, especially patients with renal and/or hepatic impairment, may require dosage adjustment when starting or stopping concomitantly administered diltiazem in order to maintain optimum therapeutic blood levels.

Anesthetics: The depression of cardiac contractility, conductivity, and automaticity as well as the vascular dilation associated with anesthetics may be potentiated by calcium channel blockers. When used concomitantly, titrate anesthetics and calcium blockers slowly.

Benzodiazepines: Studies showed that diltiazem increased the AUC of midazolam and triazolam by 3- to 4-fold and the C_{max} by 2-fold, compared to placebo. The elimination half-life of midazolam and triazolam also increased (1.5- to 2.5-fold) during coadministration with diltiazem. These pharmacokinetic effects seen during diltiazem coadministration can result in increased clinical effects (e.g., prolonged sedation) of both midazolam and triazolam.

Beta-blockers: Controlled and uncontrolled domestic studies suggest that concomitant use of diltiazem and beta-blockers is usually well tolerated, but available data are not sufficient to predict the effects of concomitant treatment in patients with left ventricular dysfunction or cardiac conduction abnormalities.

Administration of diltiazem hydrochloride concomitantly with propranolol in five normal volunteers resulted in increased propranolol levels in all subjects and bioavailability of propranolol was increased approximately 50%. *In vitro*, propranolol appears to be displaced from its binding sites by diltiazem. If combination therapy is initiated or withdrawn in conjunction with propranolol, an adjustment in the propranolol dose may be warranted (see **WARNINGS**).

Buspirone: In nine healthy subjects, diltiazem significantly increased the mean buspirone AUC 5.5-fold and C_{max} 4.1-fold compared to placebo. The $T_{1/2}$ and T_{max} of buspirone were not significantly affected by diltiazem. Enhanced effects and increased toxicity of buspirone may be possible during concomitant administration with diltiazem. Subsequent dose adjustments may be necessary during coadministration, and should be based on clinical assessment.

Carbamazepine: Concomitant administration of diltiazem with carbamazepine has been reported to result in elevated serum levels of carbamazepine (40% to 72% increase), resulting in toxicity in some cases.

Cimetidine: A study in six healthy volunteers has shown a significant increase in peak diltiazem plasma levels (58%) and area under the curve (53%) after a 1-week course of cimetidine at 1200 mg per day and a single dose of diltiazem 60 mg. Ranitidine produced smaller, nonsignificant increases. The effect may be mediated by cimetidine's known inhibition of hepatic cytochrome P450, the enzyme system responsible for the first-pass metabolism of diltiazem. Patients currently receiving diltiazem therapy should be carefully monitored for a change in pharmacological effect when initiating and discontinuing therapy with cimetidine. An adjustment in the diltiazem dose may be warranted.

Clonidine: Sinus bradycardia resulting in hospitalization and pacemaker insertion has been reported in association with the use of clonidine concurrently with diltiazem. Monitor heart rate in patients receiving concomitant diltiazem and clonidine.

Cyclosporine: A pharmacokinetic interaction between diltiazem and cyclosporine has been observed during studies involving renal and cardiac transplant patients. In renal and cardiac transplant recipients, a reduction of cyclosporine dose ranging from 15% to 48% was necessary to maintain cyclosporine trough concentrations similar to those seen prior to the addition of diltiazem. If these agents are to be administered concurrently, cyclosporine concentrations should be monitored, especially when diltiazem therapy is initiated, adjusted, or discontinued. The effect of cyclosporine on diltiazem plasma concentrations has not been evaluated.

Digitalis: Administration of diltiazem with digoxin in 24 healthy male subjects increased plasma digoxin concentrations approximately 20%. Another investigator found no increase in digoxin levels in 12 patients with coronary artery disease. Monitor digoxin levels be monitored when initiating, adjusting, and discontinuing diltiazem therapy to avoid possible over- or under- digitalization (see WARNINGS).

Ivabradine: Concurrent use of diltiazem increases exposure to ivabradine and may exacerbate bradycardia and conduction disturbances. Avoid concomitant use of ivabradine and diltiazem.

Quinidine: Diltiazem significantly increases the $AUC_{(0 \rightarrow \infty)}$ of quinidine by 51%, $T_{1/2}$ by 36%, and decreases its CL_{oral} by 33%. Monitor for quinidine adverse effects and adjust the dose accordingly.

Rifampin: Coadministration of rifampin with diltiazem lowered the diltiazem plasma concentrations to undetectable levels. Avoid coadministration of diltiazem with rifampin or any known CYP3A4 inducer.

Statins: Diltiazem is an inhibitor of CYP3A4 and has been shown to increase significantly the AUC of some statins. The risk of myopathy and rhabdomyolysis with statins metabolized by CYP3A4 may be increased with concomitant use of diltiazem. When possible, use a non-CYP3A4-metabolized statin together with diltiazem; otherwise, monitor for signs and symptoms of any statin-related adverse events, and adjust the doses accordingly.

In a healthy volunteer crossover study (N=10), coadministration of a single 20 mg dose of simvastatin at the end of a 14 day-regimen with 120 mg BID diltiazem SR resulted in a 5-fold increase in mean simvastatin AUC versus simvastatin alone. Subjects with increased average steady-state exposures of diltiazem showed a greater fold increase in simvastatin exposure. Computer-based simulations showed that at a daily dose of 480 mg of diltiazem, an 8- to 9-fold mean increase in simvastatin AUC can be expected. If coadministration of simvastatin with diltiazem is required, limit the daily doses of simvastatin to 10 mg and diltiazem to 240 mg.

In a ten-subject randomized, open-label, 4-way crossover study, coadministration of diltiazem (120 mg BID diltiazem SR for 2 weeks) with a single 20 mg dose of lovastatin resulted in 3- to 4-fold increase in mean lovastatin AUC and C_{max} versus lovastatin alone. In the same study, there was no significant

change in 20 mg single dose pravastatin AUC and C_{max} during diltiazem coadministration. Diltiazem plasma levels were not significantly affected by lovastatin or pravastatin.

Alcohol: Alcohol increases the rate at which Diltiazem Hydrochloride Extended-Release capsules release diltiazem *in vitro*. This effect may lead to more rapid absorption and an increase in the systemic exposure of diltiazem, and associated dose-related adverse reactions. Avoid consumption of alcohol with Diltiazem Hydrochloride Extended-Release capsules (see **CLINICAL PHARMACOLOGY**).

Carcinogenesis, Mutagenesis, Impairment of Fertility

A 24-month study in rats at oral dosage levels of up to 100 mg/kg/day and a 21-month study in mice at oral dosage levels of up to 30 mg/kg/day showed no evidence of carcinogenicity. There was also no mutagenic response *in vitro* or *in vivo* in mammalian cell assays or *in vitro* in bacteria. No evidence of impaired fertility was observed in a study performed in male and female rats at oral dosages of up to 100 mg/kg/day.

Pregnancy

Reproduction studies have been conducted in mice, rats, and rabbits. Administration of doses ranging from five to ten times greater (on a mg/kg basis) than the daily recommended therapeutic dose has resulted in embryo and fetal lethality. These doses, in some studies, have been reported to cause skeletal abnormalities. In the perinatal/postnatal studies, there was an increased incidence of stillbirths at doses of 20 times the human dose or greater.

There are no well-controlled studies in pregnant women; therefore, use diltiazem in pregnant women only if the potential benefit justifies the potential risk to the fetus.

Nursing Mothers

Diltiazem is excreted in human milk. One report suggests that concentrations in breast milk may approximate serum levels. If use of diltiazem is deemed essential, an alternative method of infant feeding should be instituted.

Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

Geriatric Use

Clinical studies of diltiazem did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

ADVERSE REACTIONS

Serious adverse reactions have been rare in studies carried out to date, but it should be recognized that patients with impaired ventricular function and cardiac conduction abnormalities have usually been excluded from these studies.

The following table presents the most common adverse reactions reported in placebo-controlled angina and hypertension trials in patients receiving Diltiazem Hydrochloride Extended-Release Capsules (Once-a-Day Dosage) up to 360 mg with rates in placebo patients shown for comparison.

<p style="text-align: center;">Diltiazem Hydrochloride Extended-Release capsules (Once-a-Day)</p>
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Placebo-Controlled Angina and Hypertension Trials Combined

Adverse Reactions	Diltiazem Hydrochloride Extended-Release capsules (Once-a-Day) (n=607)	Placebo (Once-a-Day) (n=301)
Headache	5.4%	5.0%
Dizziness	3.0%	3.0%
Bradycardia	3.3%	1.3%
AV Block First Degree	3.3%	0.0%
Edema	2.6%	1.3%
Asthenia	1.8%	1.7%

In addition, the following events were reported infrequently (less than 1%) in angina or hypertension trials:

Cardiovascular: Congestive heart failure, palpitations, syncope, ventricular extrasystoles.

Nervous System: Abnormal dreams, amnesia, depression, gait abnormality, hallucinations, insomnia, nervousness, paresthesia, personality change, somnolence, tinnitus, tremor.

Gastrointestinal: Anorexia, constipation, diarrhea, dry mouth, dysgeusia, dyspepsia, mild elevations of SGOT, SGPT, LDH, and alkaline phosphatase (see **WARNINGS, Acute Hepatic Injury**), thirst, vomiting, weight increase.

Dermatological: Petechiae, photosensitivity, pruritus, urticaria.

Other: Amblyopia, CPK increase, dyspnea, epistaxis, eye irritation, hyperglycemia, hyperuricemia, impotence, muscle cramps, nasal congestion, nocturia, osteoarticular pain, polyuria, sexual difficulties.

The following postmarketing events have been reported infrequently in patients receiving diltiazem: acute generalized exanthematous pustulosis, allergic reactions, alopecia, angioedema (including facial or periorbital edema), asystole, erythema multiforme (including Stevens-Johnson syndrome, toxic epidermal necrolysis), exfoliative dermatitis, extrapyramidal symptoms, gingival hyperplasia, hemolytic anemia, increased bleeding time, leukopenia, photosensitivity (including lichenoid keratosis and hyperpigmentation at sun-exposed skin areas), purpura, retinopathy, myopathy, and thrombocytopenia. In addition, events such as myocardial infarction have been observed which are not readily distinguishable from the natural history of the disease in these patients. A number of well-documented cases of generalized rash, some characterized as leukocytoclastic vasculitis, have been reported. However, a definitive cause and effect relationship between these events and diltiazem therapy is yet to be established.

To report SUSPECTED ADVERSE REACTIONS, contact Valeant Pharmaceuticals North America LLC at 1-800-321-4576 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

OVERDOSAGE

The oral LD₅₀s in mice and rats range from 415 to 740 mg/kg and from 560 to 810 mg/kg, respectively. The intravenous LD₅₀s in these species were 60 and 38 mg/kg, respectively. The oral LD₅₀ in dogs is considered to be in excess of 50 mg/kg, while lethality was seen in monkeys at 360 mg/kg.

The toxic dose in man is not known. Because of its extensive metabolism, blood levels after a standard dose of diltiazem can vary over tenfold, limiting the usefulness of blood levels in overdose cases.

There have been reports of diltiazem overdose in amounts ranging from <1 g to 18 g. Of cases with known outcome, most patients recovered and in cases with a fatal outcome, the majority involved multiple drug ingestion.

Events observed following diltiazem overdose included bradycardia, hypotension, heart block, and cardiac failure. Most reports of overdose described some supportive medical measure and/or drug treatment. Bradycardia frequently responded favorably to atropine, as did heart block, although cardiac pacing was also frequently utilized to treat heart block. Fluids and vasopressors were used to maintain blood pressure and in cases of cardiac failure, inotropic agents were administered. In addition, some patients received treatment with ventilatory support, gastric lavage, activated charcoal, and/or intravenous calcium.

In the event of overdose or exaggerated response, appropriate supportive measures should be employed in addition to gastrointestinal decontamination. Diltiazem does not appear to be removed by peritoneal or hemodialysis. Limited data suggest that plasmapheresis or charcoal hemoperfusion may hasten diltiazem elimination following overdose. Based on the known pharmacological effects of diltiazem and/or reported clinical experiences, the following measures may be considered:

Bradycardia: Administer atropine (0.60 to 1.0 mg). If there is no response to vagal blockade, administer isoproterenol cautiously.

High-Degree AV Block: Treat as for bradycardia above. Fixed high-degree AV block should be treated with cardiac pacing.

Cardiac Failure: Administer inotropic agents (isoproterenol, dopamine, or dobutamine) and diuretics.

Hypotension: Vasopressors (e.g., dopamine or norepinephrine).

Actual treatment and dosage should depend on the severity of the clinical situation and the judgment and experience of the treating physician.

DOSAGE AND ADMINISTRATION

Patients controlled on diltiazem alone or in combination with other medications may be switched to Diltiazem Hydrochloride Extended-Release Capsules (Once-a-Day Dosage) at the nearest equivalent total daily dose. Higher doses of Diltiazem Hydrochloride Extended-Release Capsules (Once-a-Day Dosage) may be needed in some patients. Monitor patients closely. Subsequent titration to higher or lower doses may be necessary. There is limited general clinical experience with doses above 360 mg, but doses to 540 mg have been studied in clinical trials. The incidence of side effects increases as the dose increases with first-degree AV block, dizziness, and sinus bradycardia bearing the strongest relationship to dose.

Hypertension: Adjust dosage to individual patient needs. When used as monotherapy, reasonable starting doses are 180 to 240 mg once daily, although some patients may respond to lower doses. Maximum antihypertensive effect is usually observed by 14 days of chronic therapy; therefore, schedule dosage adjustments accordingly. The usual dosage range studied in clinical trials was 240 to 360 mg once daily. Individual patients may respond to higher doses of up to 480 mg once daily.

Angina: Dosages for the treatment of angina should be adjusted to each patient's needs, starting with a dose of 120 or 180 mg once daily. Individual patients may respond to higher doses of up to 480 mg once daily. When necessary, titration may be carried out over a 7- to 14-day period.

Concomitant Use with Other Cardiovascular Agents

Sublingual NTG: May be taken as required to abort acute anginal attacks during Diltiazem Hydrochloride Extended-Release Capsules (Once-a-Day Dosage) therapy.

Prophylactic Nitrate Therapy: Diltiazem Hydrochloride Extended-Release Capsules (Once-a-Day Dosage) may be safely coadministered with short- and long-acting nitrates.

Beta-Blockers: (See **WARNINGS** and **PRECAUTIONS**).

Antihypertensives: Diltiazem Hydrochloride Extended-Release Capsules (Once-a-Day Dosage) has an

additive antihypertensive effect when used with other antihypertensive agents. Therefore, the dosage of Diltiazem Hydrochloride Extended-Release Capsules (Once-a-Day Dosage) or the concomitant antihypertensives may need to be adjusted when adding one to the other.

HOW SUPPLIED

Diltiazem Hydrochloride Extended-Release Capsules, USP

Strength	Description	Qty.	NDC#
120 mg	Light green opaque capsule Imprinted with BVF 120	30 blistercard	0615-8127-39
180 mg	Dark green opaque/light green opaque capsule imprinted with BVF 180	30 blistercard	0615-8128-39
240 mg	Dark green opaque capsule imprinted with BVF 240	30 blistercard	0615-8129-39
300 mg	Ivory opaque/dark green opaque capsule imprinted with BVF 300		

Storage Conditions:

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

Manufactured for:

Oceanside Pharmaceuticals,
a division of Valeant Pharmaceuticals North America LLC
Bridgewater, NJ 08807 USA

By:

Valeant Pharmaceuticals International, Inc.
Steinbach, MB
Canada R5G 1Z7

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Rev. 02/2017

PRINCIPAL DISPLAY PANEL - 120 mg Capsules



VLI NDC 0615-8127-39
Diltiazem HCl
ER Caps USP
120 mg
LOT 8127-
EXP
 8127-AA-39 v00

Once-A-Day
 Dosage

Rx only

QTY
 30

Mfg By Valeant for
 Oceanside
 (NDC 68682-993-98)
 PKG BY VANGARD
 GLASGOW, KY 42141

(Oceanside NDC 68682-993-98)

Diltiazem HCl
ER Caps USP
120 mg

Received:

31	24	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
Start Date	Start Time		

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

Once-A-Day Dosage

Dispense in a tight, light-resistant container.
 Protect from moisture.

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

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

Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 120 mg LOT 8127 - EXP 	Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 120 mg LOT 8127 - EXP 	Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 120 mg LOT 8127 - EXP 	8127-AA-B-v00 Vanguard Labs Glasgow, KY 42141 LOT 8127 - EXP
Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 120 mg LOT 8127 - EXP 	Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 120 mg LOT 8127 - EXP 	Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 120 mg LOT 8127 - EXP 	Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 120 mg LOT 8127 - EXP
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The overall configuration of this package is a trademark of Omnicare, Inc.

PRINCIPAL DISPLAY PANEL - 180 mg Capsules



VLI NDC 0615-8128-39

Diltiazem HCl
ER Caps USP
180 mg
LOT 8128-
EXP

Once-A-Day
Dosage

Rx only

8128-AA-39 v00

QTY
30

Mfg By Valeant for
Oceanside
(NDC 68682-994-98)
PKG BY VANGARD
GLASGOW, KY 42141

(Oceanside NDC 68682-994-98)

Diltiazem HCl
ER Caps USP
180 mg

Received: _____

31	24	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

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

Once-A-Day Dosage

Dispense in a tight, light-resistant container.
Protect from moisture.

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

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

Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 180 mg LOT 8128 - EXP 	Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 180 mg LOT 8128 - EXP 	Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 180 mg LOT 8128 - EXP 	8128-AA-39 v00 Vanguard Labs Glasgow, KY 42141 LOT 8128 - EXP
Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 180 mg LOT 8128 - EXP 	Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 180 mg LOT 8128 - EXP 	Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 180 mg LOT 8128 - EXP 	Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 180 mg LOT 8128 - EXP
Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 180 mg LOT 8128 - EXP 	Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 180 mg LOT 8128 - EXP 	Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 180 mg LOT 8128 - EXP 	Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 180 mg LOT 8128 - EXP
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Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 180 mg LOT 8128 - EXP 	Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 180 mg LOT 8128 - EXP 	Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 180 mg LOT 8128 - EXP 	Pkg by Vanguard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 180 mg LOT 8128 - EXP



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

PRINCIPAL DISPLAY PANEL - 240 mg Capsules



VLI NDC 0615-8129-39

Diltiazem HCl
ER Caps USP
240 mg
LOT 8129-
EXP

Once-A-Day
Dosage

Rx only

8129-AA-39-v00

QTY
30

Mfg By Valeant for
Oceanside
(NDC 68682-997-98)
PKG BY VANGARD
GLASGOW, KY 42141

(Oceanside NDC 68682-997-98)

Diltiazem HCl
ER Caps USP
240 mg

Received: _____

31	24	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

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

Once-A-Day Dosage

Dispense in a tight, light-resistant container.
Protect from moisture.

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

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

Pkg by Vangard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 240 mg LOT 8129 - EXP 	Pkg by Vangard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 240 mg LOT 8129 - EXP 	Pkg by Vangard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 240 mg LOT 8129 - EXP 	8129-AA-B-00 Vangard Labs Glasgow, KY 42141 LOT 8129 - EXP
Pkg by Vangard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 240 mg LOT 8129 - EXP 	Pkg by Vangard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 240 mg LOT 8129 - EXP 	Pkg by Vangard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 240 mg LOT 8129 - EXP 	Pkg by Vangard, Glasgow, KY 42141 Diltiazem HCl ER Cap USP 240 mg LOT 8129 - EXP
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The overall configuration of this package is a trademark of Omnicare, Inc.

DILTIAZEM HYDROCHLORIDE

diltiazem hydrochloride capsule, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0615-8127(NDC:68682-993)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Diltiazem hydrochloride (UNII: OLN94387TE) (Diltiazem - UNII:EE92BBP03H)	Diltiazem hydrochloride	120 mg

Inactive Ingredients

Ingredient Name	Strength
D&C Yellow no. 10 (UNII: 35SW5USQ3G)	
FD&C Green no. 3 (UNII: 3P3ONR6O1S)	
Magnesium Stearate (UNII: 70097M6I30)	
Polysorbate 80 (UNII: 6OZP39ZG8H)	

SUCROSE STEARATE (UNII: 274KW0O50M)
Talc (UNII: 7SEV7J4R1U)
Titanium Dioxide (UNII: 15FIX9V2JP)
ETHYL ACRYLATE AND METHYL METHACRYLATE COPOLYMER (2:1; 750000 MW) (UNII: P2OM2Q86BI)
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)

Product Characteristics			
Color	GREEN (Light green opaque)	Score	no score
Shape	CAPSULE	Size	18mm
Flavor		Imprint Code	BVF;120
Contains			

Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0615-8127-39	30 in 1 BLISTER PACK; Type 0: Not a Combination Product	01/15/2019	06/30/2022

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA075116	12/28/1999	06/30/2022

DILTIAZEM HYDROCHLORIDE

diltiazem hydrochloride capsule, extended release

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0615-8128(NDC:68682-994)
Route of Administration	ORAL		

Active Ingredient/Active Moiety		
Ingredient Name	Basis of Strength	Strength
Diltiazem Hydrochloride (UNII: OLV94387TE) (Diltiazem - UNII:EE92BBP03H)	Diltiazem Hydrochloride	180 mg

Inactive Ingredients	
Ingredient Name	Strength
D&C Yellow no. 10 (UNII: 35SW5USQ3G)	
FD&C Green no. 3 (UNII: 3P3ONR6O1S)	
Magnesium Stearate (UNII: 70097M6I30)	
Polysorbate 80 (UNII: 6OZP39ZG8H)	

SUCROSE STEARATE (UNII: 274KW0O50M)	
Talc (UNII: 7SEV7J4R1U)	
Titanium Dioxide (UNII: 15FIX9V2JP)	
ETHYL ACRYLATE AND METHYL METHACRYLATE COPOLYMER (2:1; 750000 MW) (UNII: P2OM2Q86BI)	
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)	
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	

Product Characteristics

Color	GREEN (Dark green opaque/light green opaque)	Score	no score
Shape	CAPSULE	Size	22mm
Flavor		Imprint Code	BVF;180
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0615-8128-39	30 in 1 BLISTER PACK; Type 0: Not a Combination Product	01/09/2019	06/30/2022

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA075116	12/28/1999	06/30/2022

DILTIAZEM HYDROCHLORIDE

diltiazem hydrochloride capsule, extended release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0615-8129(NDC:68682-997)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Diltiazem Hydrochloride (UNII: OLH94387TE) (Diltiazem - UNII:EE92BBP03H)	Diltiazem Hydrochloride	240 mg

Inactive Ingredients

Ingredient Name	Strength
D&C Yellow no. 10 (UNII: 35SW5USQ3G)	
FD&C Green no. 3 (UNII: 3P3ONR6O1S)	
Magnesium Stearate (UNII: 70097M6I30)	
Polysorbate 80 (UNII: 6OZP39ZG8H)	
SUCROSE STEARATE (UNII: 274KW0O50M)	

Talc (UNII: 7SEV7J4R1U)	
Titanium Dioxide (UNII: 15FIX9V2JP)	
ETHYL ACRYLATE AND METHYL METHACRYLATE COPOLYMER (2:1; 750000 MW) (UNII: P2OM2Q86BI)	
GELATIN, UNSPECIFIED (UNII: 2G86QN327L)	
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	

Product Characteristics

Color	GREEN (Dark green opaque)	Score	no score
Shape	CAPSULE	Size	23mm
Flavor		Imprint Code	BVF;240
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:06 15-8 129-39	30 in 1 BLISTER PACK; Type 0: Not a Combination Product	01/09/2019	06/30/2022

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA075116	12/28/1999	06/30/2022

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(06 15-8 127, 06 15-8 128, 06 15-8 129)

Revised: 2/2019

NCS HealthCare of KY, Inc dba Vanguard Labs