
CLONIDINE HYDROCHLORIDE USP Oral Antihypertensive Tablets of 0.1, 0.2 and 0.3 mg

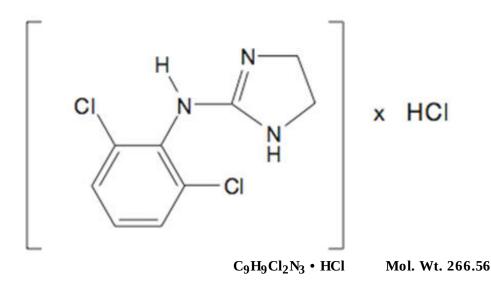
Rx only

DESCRIPTION

Clonidine hydrochloride USP is a centrally acting alpha-agonist hypotensive agent available as tablets for oral administration in three dosage strengths: 0.1 mg, 0.2 mg and 0.3 mg. The 0.1 mg tablet is equivalent to 0.087 mg of the free base.

Clonidine hydrochloride tablets contain the following inactive ingredients: lactose, magnesium stearate, microcrystalline cellulose, pregelatinized starch, and sodium starch glycolate. The 0.1 mg also contains D&C yellow #10 aluminum lake, and the 0.3 mg contains D&C yellow #10 aluminum lake and FD&C blue #1 aluminum lake.

Clonidine hydrochloride is an imidazoline derivative and exists as a mesomeric compound. The chemical name is 2-(2,6-dichlorophenylamino)-2-imidazoline hydrochloride. The following is the structural formula:



Clonidine hydrochloride is an odorless, bitter, white, crystalline substance soluble in water and alcohol.

CLINICAL PHARMACOLOGY

Clonidine stimulates alpha-adrenoreceptors in the brain stem. This action results in reduced sympathetic outflow from the central nervous system and in decreases in peripheral resistance, renal vascular resistance, heart rate, and blood pressure. Clonidine hydrochloride USP tablets act relatively rapidly. The patient's blood pressure declines within 30 to 60 minutes after an oral dose, the maximum decrease occurring within 2 to 4 hours. Renal blood flow and glomerular filtration rate remain essentially unchanged. Normal postural reflexes are intact; therefore, orthostatic symptoms are mild and infrequent.

Acute studies with clonidine hydrochloride in humans have demonstrated a moderate reduction (15% to 20%) of cardiac output in the supine position with no change in the peripheral resistance: at a 45° tilt there is a smaller reduction in cardiac output and a decrease of peripheral resistance. During long-term therapy, cardiac output tends to return to control values, while peripheral resistance remains decreased. Slowing of the pulse rate has been observed in most patients given clonidine, but the drug does not alter normal hemodynamic response to exercise.

Tolerance to the antihypertensive effect may develop in some patients, necessitating a reevaluation of therapy.

Other studies in patients have provided evidence of a reduction in plasma renin activity and in the excretion of aldosterone and catecholamines. The exact relationship of these pharmacologic actions to the antihypertensive effect of clonidine has not been fully elucidated.

Clonidine acutely stimulates growth hormone release in both children and adults, but does not produce a chronic elevation of growth hormone with long-term use.

Pharmacokinetics

The plasma level of clonidine peaks in approximately 3 to 5 hours and the plasma half-life ranges from 12 to 16 hours. The half-life increases up to 41 hours in patients with severe impairment of renal function. Following oral administration about 40–60% of the absorbed dose is recovered in the urine as unchanged drug in 24 hours. About 50% of the absorbed dose is metabolized in the liver. Neither food nor the race of the patient influences the pharmacokinetics of clonidine.

INDICATIONS AND USAGE

Clonidine hydrochloride USP tablets are indicated in the treatment of hypertension. Clonidine hydrochloride USP tablets may be employed alone or concomitantly with other antihypertensive agents.

CONTRAINDICATIONS

Clonidine hydrochloride USP tablets should not be used in patients with known hypersensitivity to clonidine (see PRECAUTIONS).

WARNINGS

Withdrawal

Patients should be instructed not to discontinue therapy without consulting their physician. Sudden cessation of clonidine treatment has, in some cases, resulted in symptoms such as nervousness, agitation, headache, and tremor accompanied or followed by a rapid rise in blood pressure and elevated catecholamine concentrations in the plasma. The likelihood of such reactions to discontinuation of clonidine therapy appears to be greater after administration of higher doses or continuation of concomitant beta-blocker treatment and special caution is therefore advised in these situations. Rare instances of hypertensive encephalopathy, cerebrovascular accidents and death have been reported after clonidine withdrawal. When discontinuing therapy with clonidine hydrochloride USP tablets, the physician should reduce the dose gradually over 2 to 4 days to avoid withdrawal symptomatology.

An excessive rise in blood pressure following discontinuation of clonidine hydrochloride tablets therapy can be reversed by administration of oral clonidine hydrochloride or by intravenous phentolamine. If therapy is to be discontinued in patients receiving a beta-blocker and clonidine concurrently, the beta-blocker should be withdrawn several days before the gradual discontinuation of clonidine hydrochloride tablets.

Because children commonly have gastrointestinal illnesses that lead to vomiting, they may be

particularly susceptible to hypertensive episodes resulting from abrupt inability to take medication.

PRECAUTIONS

General

In patients who have developed localized contact sensitization to clonidine-TTS, continuation of clonidine-TTS or substitution of oral clonidine hydrochloride therapy may be associated with the development of a generalized skin rash.

In patients who develop an allergic reaction to clonidine-TTS, substitution of oral clonidine hydrochloride may also elicit an allergic reaction (including generalized rash, urticaria, or angioedema).

Clonidine hydrochloride tablets should be used with caution in patients with severe coronary insufficiency, conduction disturbances, recent myocardial infarction, cerebrovascular disease or chronic renal failure.

Perioperative Use

Administration of clonidine hydrochloride tablets should be continued to within four hours of surgery and resumed as soon as possible thereafter. Blood pressure should be carefully monitored during surgery and additional measures to control blood pressure should be available if required.

Information for Patients

Patients should be cautioned against interruption of clonidine hydrochloride tablets therapy without their physician's advice.

Patients who engage in potentially hazardous activities, such as operating machinery or driving, should be advised of a possible sedative effect of clonidine. They should also be informed that this sedative effect may be increased by concomitant use of alcohol, barbiturates, or other sedating drugs.

Patients who wear contact lenses should be cautioned that treatment with clonidine hydrochloride tablets may cause dryness of eyes.

Drug Interactions

Clonidine may potentiate the CNS-depressive effects of alcohol, barbiturates or other sedating drugs. If a patient receiving clonidine hydrochloride is also taking tricyclic antidepressants, the hypotensive effect of clonidine may be reduced, necessitating an increase in the clonidine dose.

Monitor heart rate in patients receiving clonidine concomitantly with agents known to affect sinus node function of AV nodal conduction, *e.g.*, digitalis, calcium channel blockers, and beta-blockers. Sinus bradycardia resulting in hospitalization and pacemaker insertion has been reported in association with the use of clonidine concomitantly with diltiazem or verapamil.

Amitriptyline in combination with clonidine enhances the manifestation of corneal lesions in rats (see Toxicology).

Toxicology

In several studies with oral clonidine hydrochloride, a dose-dependent increase in the incidence and severity of spontaneous retinal degeneration was seen in albino rats treated for six months or longer. Tissue distribution studies in dogs and monkeys showed a concentration of clonidine in the choroid.

In view of the retinal degeneration seen in rats, eye examinations were performed during clinical trials in 908 patients before, and periodically after, the start of clonidine therapy. In 353 of these 908 patients, the eye examinations were carried out over periods of 24 months or longer. Except for some dryness of

the eyes, no drug-related abnormal ophthalmological findings were recorded and, according to specialized tests such as electroretinography and macular dazzle, retinal function was unchanged.

In combination with amitriptyline, clonidine hydrochloride administration led to the development of corneal lesions in rats within 5 days.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Chronic dietary administration of clonidine was not carcinogenic to rats (132 weeks) or mice (78 weeks) dosed, respectively, at up to 46 to 70 times the maximum recommended daily human dose as mg/kg (9 or 6 times the MRDHD on mg/m² basis). There was no evidence of genotoxicity in the Ames test for mutagenicity or mouse micronucleus test for clastogenicity.

Fertility of male or female rats was unaffected by clonidine doses as high as 150 mcg/kg (approximately 3 times MRDHD). In a separate experiment, fertility of female rats appeared to be affected at dose levels of 500 to 2000 mcg/kg (10 to 40 times the oral MRDHD on a mg/kg basis; 2 to 8 times the MRDHD on a mg/m² basis.

Pregnancy

Teratogenic Effects: *Pregnancy Category C.*

Reproduction studies performed in rabbits at doses up to approximately 3 times the oral maximum recommended daily human dose (MRDHD) of clonidine hydrochloride USP tablets produced no evidence of a teratogenic or embryotoxic potential in rabbits. In rats, however, doses as low as 1/3 the oral MRDHD (1/15 the MRDHD on a mg/m² basis) of clonidine were associated with increased resorptions in a study in which dams were treated continuously from 2 months prior to mating. Increased resorptions were not associated with treatment at the same time or at higher dose levels (up to 3 times the oral MRDHD) when the dams were treated on gestation days 6–15. Increases in resorption were observed at much higher dose levels (40 times the oral MRDHD on a mg/kg basis; 4 to 8 times the MRDHD on a mg/m² basis) in mice and rats treated on gestation days 1–14 (lowest dose employed in the study was 500 mcg/kg).

No adequate, well-controlled studies have been conducted 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

As clonidine hydrochloride is excreted in human milk, caution should be exercised when clonidine hydrochloride USP tablets are administered to a nursing woman.

Pediatric Use

Safety and effectiveness in pediatric patients have not been established in adequate and well-controlled trials (see WARNINGS, Withdrawal).

ADVERSE REACTIONS

Most adverse effects are mild and tend to diminish with continued therapy. The most frequent (which appear to be dose-related) are dry mouth, occurring in about 40 of 100 patients; drowsiness, about 33 in 100; dizziness, about 16 in 100; constipation and sedation, each about 10 in 100.

The following less frequent adverse experiences have also been reported in patients receiving clonidine hydrochloride tablets, but in many cases patients were receiving concomitant medication and a causal relationship has not been established.

Body as a Whole: Fatigue, fever, headache, pallor, weakness, and withdrawal syndrome. Also reported were a weakly positive Coombs' test and increased sensitivity to alcohol.

Cardiovas cular: Bradycardia, congestive heart failure, electrocardiographic abnormalities (*i.e.*, sinus node arrest, junctional bradycardia, high degree AV block and arrhythmias), orthostatic symptoms, palpitations, Raynaud's phenomenon, syncope, and tachycardia. Cases of sinus bradycardia and atrioventricular block have been reported, both with and without the use of concomitant digitalis.

Central Nervous System: Agitation, anxiety, delirium, delusional perception, hallucinations (including visual and auditory), insomnia, mental depression, nervousness, other behavioral changes, paresthesia, restlessness, sleep disorder, and vivid dreams or nightmares.

Dermatological: Alopecia, angioneurotic edema, hives, pruritus, rash, and urticaria.

Gas trointes tinal: Abdominal pain, anorexia, constipation, hepatitis, malaise, mild transient abnormalities in liver function tests, nausea, parotitis, pseudo-obstruction (including colonic pseudo-obstruction), salivary gland pain, and vomiting.

Genitourinary: Decreased sexual activity, difficulty in micturition, erectile dysfunction, loss of libido, nocturia, and urinary retention.

Hematologic: Thrombocytopenia.

Metabolic: Gynecomastia, transient elevation of blood glucose or serum creatine phosphokinase, and weight gain.

Musculoskeletal: Leg cramps and muscle or joint pain.

Oro-otolaryngeal: Dryness of the nasal mucosa.

Ophthalmological: Accommodation disorder, blurred vision, burning of the eyes, decreased lacrimation, and dryness of eyes.

OVERDOSAGE

Hypertension may develop early and may be followed by hypotension, bradycardia, respiratory depression, hypothermia, drowsiness, decreased or absent reflexes, weakness, irritability and miosis. The frequency of CNS depression may be higher in children than adults. Large overdoses may result in reversible cardiac conduction defects or dysrhythmias, apnea, coma and seizures. Signs and symptoms of overdose generally occur within 30 minutes to two hours after exposure. As little as 0.1 mg of clonidine has produced signs of toxicity in children.

There is no specific antidote for clonidine overdosage. Clonidine overdosage may result in the rapid development of CNS depression; therefore, induction of vomiting with ipecac syrup is not recommended. Gastric lavage may be indicated following recent and/or large ingestions. Administration of activated charcoal and/or a cathartic may be beneficial. Supportive care may include atropine sulfate for bradycardia, intravenous fluids and/or vasopressor agents for hypotension and vasodilators for hypertension. Naloxone may be a useful adjunct for the management of clonidine-induced respiratory depression, hypotension and/or coma; blood pressure should be monitored since the administration of naloxone has occasionally resulted in paradoxical hypertension. Tolazoline administration has yielded inconsistent results and is not recommended as first-line therapy. Dialysis is not likely to significantly enhance the elimination of clonidine.

The largest overdose reported to date involved a 28-year old male who ingested 100 mg of clonidine hydrochloride powder. This patient developed hypertension followed by hypotension, bradycardia, apnea, hallucinations, semicoma, and premature ventricular contractions. The patient fully recovered after intensive treatment. Plasma clonidine levels were 60 ng/ml after 1 hour, 190 ng/ml after 1.5 hours, 370 ng/ml after 2 hours, and 120 ng/ml after 5.5 and 6.5 hours. In mice and rats, the oral LD₅₀ of clonidine is 206 and 465 mg/kg, respectively.

DOSAGE AND ADMINISTRATION

Adults

The dose of clonidine hydrochloride USP tablets must be adjusted according to the patient's individual blood pressure response. The following is a general guide to its administration.

Initial Dose

0.1 mg tablet twice daily (morning and bedtime). Elderly patients may benefit from a lower initial dose.

Maintenance Dose

Further increments of 0.1 mg per day may be made at weekly intervals if necessary until the desired response is achieved. Taking the larger portion of the oral daily dose at bedtime may minimize transient adjustment effects of dry mouth and drowsiness. The therapeutic doses most commonly employed have ranged from 0.2 mg to 0.6 mg per day given in divided doses.

Studies have indicated that 2.4 mg is the maximum effective daily dose, but doses as high as this have rarely been employed.

Renal Impairment

Dosage must be adjusted according to the degree of impairment, and patients should be carefully monitored. Since only a minimal amount of clonidine is removed during routine hemodialysis, there is no need to give supplemental clonidine following dialysis.

HOW SUPPLIED

Clonidine hydrochloride tablets USP are supplied as follows:

Clonidine hydrochloride tablets USP 0.1 mg, yellow, round, debossed MP 657 on one side and plain on the other side.

Bottles of	NDC 54868-
15	0048-7
Bottles of	NDC 54868-
20	0048-1
Bottles of	NDC 54868-
30	0048-5
Bottles of	NDC 54868-
60	0048-2
Bottles of	NDC 54868-
90	0048-8
Bottles of	NDC 54868-
100	0048-3

Clonidine hydrochloride tablets USP 0.2 mg, white, round, debossed MP 658 on one side and plain on the other side.

 Bottles of
 NDC 54868

 30
 0049-2

 Bottles of
 NDC 54868

 60
 0049-5

 Bottles of
 NDC 54868

 90
 0049-1

 Bottles of
 NDC 54868

1200049-6Bottles ofNDC 54868-1800049-7

Clonidine hydrochloride tablets USP 0.3 mg, green, round, debossed MP 659 on one side and plain on the other side.

Bottles of 30	NDC 54868- 1967-2
Bottles of	NDC 54868-
60	1967-0
Bottles of	NDC 54868-
90	1967-3
Bottles of	NDC 54868-
100	1967-4
Bottles of	NDC 54868-
120	1967-1

Store at 20° to 25°C (68° to 77°F).

[See USP Controlled Room Temperature] DISPENSE IN TIGHT, LIGHT-RESISTANT CONTAINER.

Address medical inquiries to: 1-888-351-3786.

Manufactured by: MUTUAL PHARMACEUTICAL COMPANY, INC. Philadelphia, PA 19124 USA

Rev 03, April 2010

Relabeling and Repackaging by: Physicians Total Care, Inc. Tulsa, OK 74146

PRINCIPAL DISPLAY PANEL - 0.1 mg Bottle Label

CLONIDINE HYDROCHLORIDE TABLETS USP

0.1 mg

Rx only



PRINCIPAL DISPLAY PANEL - 0.2 mg Bottle Label

CLONIDINE HYDROCHLORIDE TABLETS USP

0.2 mg

Rx only



PRINCIPAL DISPLAY PANEL - 0.3 mg Bottle Label

CLONIDINE HYDROCHLORIDE TABLETS USP

0.3 mg

Rx only



CLONIDINE HYDROCHLORIDE

Product Information	on							
Product T ype		HUMAN PRESCRIPTION DRUG Item Code (Source) NDC:548				IDC:54868-0048(NI	4868-0048(NDC:53489-215	
Route of Administrati	on	ORAL						
Active Ingredient/		0			D		C 1	
CLONIDINE HYDROCH	•	Ingredient NameBasisRIDE (UNII: W7616XXF06) (CLONIDINE -CLONIDINE				sis of Strength	Strengt	
UNII:MN3L5RMN02)	LOKIDE (UNI	i. w/010XAF00) (C	LONDINE -			CHLORIDE	0.1 mg	
Inactive Ingredien	ts							
		Ingredie	nt Name				Strength	
LACTOSE (UNII: J2B2A		7M (20)						
MAGNESIUM STEARAT CELLULOSE, MICROC			II)					
STARCH, CORN (UNII: ((01411. 01 11(32D01	0)					
SODIUM STARCH GLY		E A POTATO (UN	III: 5856J3G2A	2)				
D&C YELLOW NO. 10				-)				
Product Character	istics							
Color	ye llo w		Score			no score		
Shape	ROUN	D	Size			7mm	7mm	
Flavor			Imprint Cod	e		MP;657		
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Packaging						Ъ / с	End Date	
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CLONIDINE HYDROCHLORIDE

clonidine hydrochloride tablet

Product Informati	on					
Product T ype	HUMAN	PRESCRIPTION I	DRUG Item Code (So	urce) NDC:54	868-0049(ND	C:53489-216
Route of Administrat	on ORAL					
Active Ingredient/	v					
Ingredient Name Basis of Str						Strengt
CLONIDINE HYDROCH UNII:MN3L5RMN02)	NIDINE HYDRO CHLO RIDE (UNII: W7616XXF06) (CLONIDINE - CLONIDINE :MN3L5RMN02) HYDROCHLO					0.2 mg
Inactive Ingredien						C 4
		ngredient Nam	le			Strength
LACTOSE (UNII: J2B2A MAGNESIUM STEARA						
CELLULOSE, MICROC						
STARCH, CORN (UNII:		F1K32D010)				
SODIUM STARCH GLY		ATO (UNII) 5856	13(2) (2)			
Product Characte	r istics white	Score			no score	
Shape	ROUND	Size			7mm	
Flavor			nt Code		MP;658	
Contains						
Packaging						
# Item Code	Package D	escription	Marketing Star	t Date	Marketing E	End Date
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1 NDC:54868-0049-1						
NDC:54868-0049-1 NDC:54868-0049-2	30 in 1 BOTTLE, F	PLASTIC				
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CLONIDINE HYDROCHLORIDE

clonidine hydrochloride tablet

Product Information

		HUMAN PRESCRIPT		Item Co	de (Source)	NDC:5486	58-1967(ND	C:53489-217
Route of Administrati	ion	ORAL						
Active Ingredient/	Active Mo	iety						
	Ing	redient Name			B	asis of St	trength	Strengt
CLONIDINE HYDROCH UNII:MN3L5RMN02)	ILORIDE (UN	II: W76I6XXF06) (CLC	ONIDINE -		CLON HYDRO	IDINE)CHLORID	E	0.3 mg
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Inactive Ingredien	its							
J		Ingredient	Name					Strength
LACTOSE (UNII: J2B2A	4N98G)							
MAGNESIUM STEARAT	FE (UNII: 7009	7M6I30)						
CELLULOSE, MICROC	RYSTALLIN	E (UNII: OP1R32D61U)						
STARCH, CORN (UNII: (08232NY3SJ)							
SO DIUM STARCH GLY	COLATE TY	PE A POTATO (UNII:	5856J3G2A	2)				
D&C YELLOW NO. 10	(UNII: 35SW50	USQ3G)						
FD&C BLUE NO.1 (UN	II: H3R47K3TB	SD)						
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Shape		green Score no score						
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	ROOI			0		7r	nm	
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Flavor				e		7r	nm	
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Labeler - Physicians Total Care, Inc. (194123980)

Establishment						
Name	Address	ID/FEI	Business Operations			
Physicians Total Care, Inc.		194123980	relabel, repack			

Revised: 6/2012