

DICYCLOMINE HYDROCHLORIDE - dicyclomine hydrochloride capsule Bryant Ranch Prepack

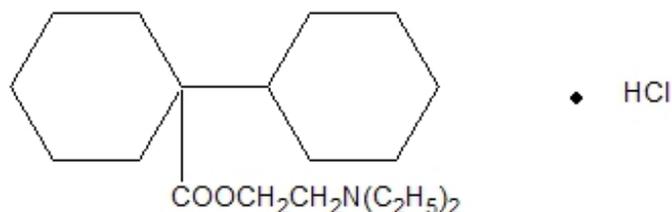
DICYCLOMINE (dicyclomine hydrochloride) capsule

DESCRIPTION

Dicyclomine hydrochloride is an antispasmodic and anticholinergic (antimuscarinic) agent available in the following form:

Each capsule, for oral administration, contains 10 mg of dicyclomine hydrochloride. Each capsule also contains the following inactive ingredients: Corn Starch, Lactose Monohydrate, Magnesium Stearate, and Microcrystalline Cellulose. Capsule shells contain FD and C Blue No. 1, FD and C Red No. 4, and Gelatin. The imprinting ink contains Titanium Dioxide.

Chemically, dicyclomine hydrochloride is [bicyclohexyl]-1-carboxylic acid, 2-(diethylamino) ethyl ester, hydrochloride with the structural formula:



Dicyclomine hydrochloride occurs as a fine, white, crystalline, practically odorless powder with a bitter taste. It is soluble in water, freely soluble in alcohol and chloroform, and very slightly soluble in ether.

Nine percent (9%) of patients were discontinued from the drug because of one or more of these side effects (compared with 2% in the placebo group). In 41% of the patients with side effects, side effects disappeared or were tolerated at the 160 mg daily dose without reduction. A dose reduction from 160 mg daily to an average daily dose of 90 mg was required in 46% of the patients with side effects who then continued to experience a favorable clinical response; their side effects either disappeared or were tolerated. (See .)

CLINICAL PHARMACOLOGY

Dicyclomine relieves smooth muscle spasm of the gastrointestinal tract. Animal studies indicate that this action is achieved via a dual mechanism: (1) a specific anticholinergic effect (antimuscarinic) at the acetylcholine-receptor sites with approximately 1/8 the milligram potency of atropine (, guinea pig ileum); and (2) a direct effect upon smooth muscle (musculotropic) as evidenced by dicyclomine's antagonism of bradykinin- and histamine-induced spasms of the isolated guinea pig ileum. Atropine did not affect responses to these two agonists. studies in cats and dogs showed dicyclomine to be equally potent against acetylcholine (ACh)- or barium chloride (BaCl)-induced intestinal spasm while atropine was at least 200 times more potent against effects of ACh than BaCl . Tests for mydriatic effects in mice showed that dicyclomine was approximately 1/500 as potent as atropine; antisialagogue tests in rabbits showed dicyclomine to be 1/300 as potent as atropine. *in vitro**In vivo*₂₂

In man, dicyclomine is rapidly absorbed after oral administration, reaching peak values within 60-90 minutes. The principal route of elimination is via the urine (79.5% of the dose). Excretion also occurs in the feces, but to a lesser extent (8.4%). Mean half-life of plasma elimination in one study was determined to be approximately 1.8 hours when plasma concentrations were measured for 9 hours after a single dose. In subsequent studies, plasma concentrations were followed for up to 24 hours after a single dose, showing a secondary phase of elimination with a somewhat longer half-life. Mean volume

of distribution for a 20 mg oral dose is approximately 3.65 L/kg suggesting extensive distribution in tissues.

In controlled clinical trials involving over 100 patients who received drug, 82% of patients treated for functional bowel/irritable bowel syndrome with dicyclomine hydrochloride at initial doses of 160 mg daily (40 mg q.i.d.) demonstrated a favorable clinical response compared with 55% treated with placebo. (p less than .05). In these trials, most of the side effects were typically anticholinergic in nature and were reported by 61% of the patients.

ADVERSE REACTIONS

INDICATIONS AND USAGE

For the treatment of functional bowel/irritable bowel syndrome.

CONTRAINDICATIONS

1. Obstructive uropathy
2. Obstructive disease of the gastrointestinal tract
3. Severe ulcerative colitis (See) **PRECAUTIONS**
4. Reflux esophagitis
5. Unstable cardiovascular status in acute hemorrhage
6. Glaucoma
7. Myasthenia gravis
8. Evidence of prior hypersensitivity to dicyclomine hydrochloride or other ingredients of this formulation
9. Infants less than 6 months of age (See and : .) **WARNINGS****PRECAUTIONS****Information for Patients**
10. Nursing Mothers (See and : .) **WARNINGS****PRECAUTIONS****Information for Patients**

WARNINGS

In the presence of a high environmental temperature, heat prostration can occur with drug use (fever and heat stroke due to decreased sweating). If symptoms occur, the drug should be discontinued and supportive measures instituted.

Diarrhea may be an early symptom of incomplete intestinal obstruction, especially in patients with ileostomy or colostomy. In this instance, treatment with this drug would be inappropriate and possibly harmful.

Dicyclomine hydrochloride may produce drowsiness or blurred vision. The patient should be warned not to engage in activities requiring mental alertness, such as operating a motor vehicle or other machinery or performing hazardous work while taking this drug.

Psychosis has been reported in sensitive individuals given anticholinergic drugs. CNS signs and symptoms include confusion, disorientation, short-term memory loss, hallucinations, dysarthria, ataxia, coma, euphoria, decreased anxiety, fatigue, insomnia, agitation and mannerisms, and inappropriate affect.

These CNS signs and symptoms usually resolve within 12 to 24 hours after discontinuation of the drug.

There are reports that administration of dicyclomine hydrochloride syrup to infants has been followed by serious respiratory symptoms (dyspnea, shortness of breath, breathlessness, respiratory collapse, apnea, asphyxia), seizures, syncope, pulse rate fluctuations, muscular hypotonia, and coma. Death has been reported. No causal relationship between these effects observed in infants and dicyclomine administration has been established. **DICYCLOMINE IS CONTRAINDICATED IN INFANTS LESS THAN 6 MONTHS OF AGE AND IN NURSING MOTHERS.** (See and and).

CONTRAINDICATIONSPRECAUTIONS:Nursing MothersPediatric Use

Safety and efficacy of dicyclomine hydrochloride in pediatric patients have not been established.

PRECAUTIONSGeneral:

Use with caution in patients with:

1. Autonomic neuropathy
2. Hepatic or renal disease
3. Ulcerative colitis - large doses may suppress intestinal motility to the point of producing a paralytic ileus and the use of this drug may precipitate or aggravate the serious complication of toxic megacolon (see) **CONTRAINDICATIONS**
4. Hyperthyroidism
5. Hypertension
6. Coronary heart disease
7. Congestive heart failure
8. Cardiac tachyarrhythmia
9. Hiatal hernia (see : Reflux esophagitis) **CONTRAINDICATIONS**
10. Known or suspected prostatic hypertrophy.

Investigate any tachycardia before administration of dicyclomine hydrochloride, since it may increase the heart rate.

With overdosage, a curare-like action may occur (i.e., neuromuscular blockade leading to muscular weakness and possible paralysis).

ADVERSE REACTIONS

Controlled clinical trials have provided frequency information for reported adverse effects of dicyclomine hydrochloride listed in a decreasing order of frequency. (See .) **CLINICAL PHARMACOLOGY**

Not all of the following adverse reactions have been reported with dicyclomine hydrochloride. Adverse reactions are included here that have been reported for pharmacologically similar drugs with anticholinergic/antispasmodic action.

: dry mouth, nausea, vomiting, constipation, bloated feeling, abdominal pain, taste loss, anorexia
Gastrointestinal

: dizziness, light-headedness, tingling, headache, drowsiness, weakness, nervousness, numbness, mental confusion and/or excitement (especially in elderly persons), dyskinesia, lethargy, syncope, speech disturbance, insomnia **Central Nervous System**

: blurred vision, diplopia, mydriasis, cycloplegia, increased ocular tension. **Ophthalmologic**

: rash, urticaria, itching, and other dermal manifestations; severe allergic reaction or drug idiosyncrasies including anaphylaxis **Dermatologic/Allergic**

: urinary hesitancy, urinary retention **Genitourinary**

: tachycardia, palpitations **Cardiovascular**

: Dyspnea, apnea, asphyxia (see) **Respiratory****WARNINGS**

: decreased sweating, nasal stuffiness or congestion, sneezing, throat congestion, impotence, suppression of lactation (see :) **Other****PRECAUTIONS****Nursing Mothers**

DRUG ABUSE AND DEPENDENCE

Abuse and/or dependence on dicyclomine for anticholinergic effects have been rarely reported.

OVERDOSAGE

: The signs and symptoms of overdosage are headache; nausea; vomiting; blurred vision; dilated pupils; hot, dry skin; dizziness; dryness of the mouth; difficulty in swallowing; and CNS stimulation. A curare-like action may occur (i.e., neuromuscular blockade leading to muscular weakness and possible

paralysis). **Signs and Symptoms**

A 37-year old female reported numbness on the left side, cold fingertips, blurred vision, abdominal and flank pain, decreased appetite, dry mouth, and nervousness following ingestion of 320 mg daily (four 20 mg tablets QID) for four days. These events resolved after discontinuing the dicyclomine.

: The acute oral LD of the drug is 625 mg/kg in mice. **Oral LD₅₀**

: The amount of drug in a single dose that is ordinarily associated with symptoms of overdosage or that is likely to be life threatening, has not been defined. The maximum human oral dose recorded was 600 mg by mouth in a 10-month-old child and approximately 1500 mg in an adult, each of whom survived. In three of the infants who died following administration of dicyclomine hydrochloride (see), the blood concentrations of drug were 200, 220, and 505 ng/mL, respectively. **Minimum Human Lethal Dose/Maximum Human Dose Recorded****WARNINGS**

: It is not known if dicyclomine hydrochloride is dialyzable. **Dialysis**

: Treatment should consist of gastric lavage, emetics, and activated charcoal. Sedatives (e.g., short-acting barbiturates, benzodiazepines) may be used for management of overt signs of excitement. If indicated, an appropriate parenteral cholinergic agent may be used as an antidote. **Treatment**

DOSAGE AND ADMINISTRATION

DOSAGE MUST BE ADJUSTED TO INDIVIDUAL PATIENT NEEDS. (See .)

CLINICAL PHARMACOLOGY

Adults-Oral

The only oral dose clearly shown to be effective is 160 mg per day (in 4 equally divided doses). Since this dose is associated with a significant incidence of side effects, it is prudent to begin with 80 mg per day (in 4 equally divided doses). Depending upon the patient's response during the first week of therapy, the dose should be increased to 160 mg per day unless side effects limit dosage escalation. If efficacy is not achieved within 2 weeks or side effects require doses below 80 mg per day, the drug should be discontinued. Documented safety data are not available for doses above 80 mg daily for periods longer than 2 weeks.

Information for Patients :

Dicyclomine hydrochloride may produce drowsiness or blurred vision. The patient should be warned not to engage in activities requiring mental alertness, such as operating a motor vehicle or other machinery or to perform hazardous work while taking this drug.

Dicyclomine is contraindicated in infants less than 6 months of age and in nursing mothers. (See , , and .) **CONTRAINDICATIONSWARNINGSPRECAUTIONS:Nursing Mothers Pediatric Use**

In the presence of a high environmental temperature, heat prostration can occur with drug use (fever and heat stroke due to decreased sweating). If symptoms occur, the drug should be discontinued and a physician contacted.

Drug Interactions:

The following agents may increase certain actions or side effects of anticholinergic drugs: amantadine, antiarrhythmic agents of Class 1 (e.g., quinidine), antihistamines, antipsychotic agents (e.g., phenothiazines), benzodiazepines, MAO inhibitors, narcotic analgesics (e.g., meperidine), nitrates and nitrites, sympathomimetic agents, tricyclic antidepressants, and other drugs having anticholinergic activity.

Anticholinergics antagonize the effects of antiglaucoma agents. Anticholinergic drugs in the presence of increased intraocular pressure may be hazardous when taken concurrently with agents such as corticosteroids. (See also .) **CONTRAINDICATIONS**

Anticholinergic agents may affect gastrointestinal absorption of various drugs, such as slowly dissolving dosage forms of digoxin; increased serum digoxin concentrations may result.

Anticholinergic drugs may antagonize the effects of drugs that alter gastrointestinal motility, such as metoclopramide. Because antacids may interfere with the absorption of anticholinergic agents, simultaneous use of these drugs should be avoided. The inhibiting effects of anticholinergic drugs on gastric hydrochloric acid secretion are antagonized by agents used to treat achlorhydria and those used to test gastric secretion.

Carcinogenesis, Mutagenesis, Impairment of Fertility:

There are no known human data on long-term potential for carcinogenicity or mutagenicity. Long-term studies in animals to determine carcinogenic potential are not known to have been conducted. In studies in rats at doses of up to 100 mg/kg/day, dicyclomine hydrochloride produced no deleterious effects on breeding, conception, or parturition.

Pregnancy:Teratogenic Effects:

Pregnancy Category B

Reproduction studies have been performed in rats and rabbits at doses up to 33 times the maximum recommended human dose based on 160 mg/day (3 mg/kg) and have revealed no evidence of impaired fertility or harm to the fetus due to dicyclomine. Epidemiologic studies in pregnant women with products containing dicyclomine hydrochloride (at doses up to 40 mg/day) have not shown that dicyclomine increases the risk of fetal abnormalities if administered during the first trimester of pregnancy. There are, however, no adequate and well-controlled studies in pregnant women at the recommended doses (80-160 mg/day). Because animal reproduction studies are not always predictive of human response, dicyclomine hydrochloride as indicated for functional bowel/irritable bowel syndrome should be used during pregnancy only if clearly needed.

Nursing Mothers :

Since dicyclomine hydrochloride has been reported to be excreted in human milk, DICYCLOMINE HYDROCHLORIDE IS CONTRAINDICATED IN NURSING MOTHERS. (See , and .)

CONTRAINDICATIONSWARNINGS,PRECAUTIONS:Pediatric UseADVERSE REACTIONS

Pediatric Use:

(See , and .) DICYCLOMINE HYDROCHLORIDE IS CONTRAINDICATED IN INFANTS LESS THAN 6 MONTHS OF AGE. **CONTRAINDICATIONS,WARNINGSPRECAUTIONS:Nursing**

Mothers

Safety and effectiveness in pediatric patients have not been established.

Geriatric Use:

Clinical studies of dicyclomine hydrochloride did not include sufficient time 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. (See). **DOSAGE AND ADMINISTRATION**

This drug is known to be substantially excreted by the kidney and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function.

Dicyclomine 10mg Capsule

Packaged by Bryan Roach

North Hollywood, CA, 91605

Dicyclomine 10mg Capsule

LOT

39026

RX Only

**May Cause
Drowsiness/No Alcohol**

**Keep all drugs out of
reach of children**



03341139026

Compare To:

Bentyl 10mg Capsule

NNN

Exp: MM/YY

NDC

636293341*

DICYCLOMINE HYDROCHLORIDE

dicyclomine hydrochloride capsule

Product Information

Product Type	HUMAN PRESCRIPTION DRUG LABEL	Item Code (Source)	NDC:63629- 3341(NDC:0143-3126)
Route of Administration	ORAL	DEA Schedule	

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
DICYCLOMINE HYDROCHLORIDE (DICYCLOMINE)	DICYCLOMINE HYDROCHLORIDE	10 mg

Inactive Ingredients

Ingredient Name	Strength
FD&C BLUE NO. 1	
LACTOSE MONOHYDRATE	

Product Characteristics

Color	blue	Score	no score
Shape	CAPSULE	Size	15mm
Flavor		Imprint Code	Westward;3126
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
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1	NDC:63629-3341-1	30 in 1 BOTTLE		
2	NDC:63629-3341-2	90 in 1 BOTTLE		
3	NDC:63629-3341-3	40 in 1 BOTTLE		
4	NDC:63629-3341-4	60 in 1 BOTTLE		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA040204	02/28/1997	

Labeler - Bryant Ranch Prepack (171714327)

Registrant - Bryant Ranch Prepack (171714327)

Establishment

Name	Address	ID/FEI	Business Operations
Bryant Ranch Prepack		171714327	REPACK(63629-3341), RELABEL(63629-3341)

Revised: 10/2009

Bryant Ranch Prepack