CYPROHEPTADINE HYDROCHLORIDE - cyproheptadine hydrochloride tablet Carilion Materials Management

CYPROHEPTADINE HYDROCHLORIDE TABLETS, USP Rx Only

DESCRIPTION

Cyproheptadine HCl, is an antihistaminic and antiserotonergic agent. Cyproheptadine hydrochloride is a white to slightly yellowish crystalline solid, with a molecular weight of 350.89, which is soluble in water, freely soluble in methanol, sparingly soluble in ethanol, soluble in chloroform, and practically insoluble in ether. It is the sesquihydrate of 4-(5H-dibenzo[a,d]cyclohepten-5-ylidene)-1-methylpiperidine hydrochloride. The molecular formula of the anhydrous salt is C21H21N•HCl and the structural formula of the anhydrous salt is:

Cyproheptadine hydrochloride is available for oral administration in 4 mg tablets. Inactive ingredients include: lactose monohydrate, magnesium stearate, microcrystalline cellulose, and sodium starch glycolate.

CLINICAL PHARMACOLOGY

Cyproheptadine is a serotonin and histamine antagonist with anticholinergic and sedative effects. Antiserotonin and antihistamine drugs appear to compete with serotonin and histamine, respectively, for receptor sites.

After a single 4 mg oral dose of 14C-labelled Cyproheptadine HCl in normal subjects, given as tablets, 2-20% of the radioactivity was excreted in the stools. Only about 34% of the stool radioactivity was unchanged drug, corresponding to less than 5.7% of the dose. At least 40% of the administered radioactivity was excreted in the urine. No detectable amounts of unchanged drug were present in the urine of patients on chronic 12-20 mg daily doses. The principle metabolite found in human urine has been identified as a quaternary ammonium glucuronide conjugate of cyproheptadine. Elimination is diminished in renal insufficiency. **Pharmacokinetics and Metabolism:**

INDICATIONS AND USAGE

Perennial and seasonal allergic rhinitis Vasomotor rhinitis Allergic conjunctivitis due to inhalant allergens and foods Mild, uncomplicated allergic skin manifestations of urticaria and angioedema Amelioration of allergic reactions to blood or plasma Cold urticaria Dermatographism

As therapy for anaphylactic reactions adjunctive to epinephrine and other standard measures after the acute manifestations have been controlled.

CONTRAINDICATIONS

This drug should not be used in newborn or premature infants. **Newborn or Premature Infants:**

Because of the higher risk of antihistamines for infants generally and for newborns and prematures in particular, antihistamine therapy is contraindicated in nursing mothers. **Nursing Mothers:**

Hypersensitivity to cyproheptadine and other drugs of similar chemical structure. Monoamine oxidase inhibitor therapy (see .) Angle-closure glaucoma Stenosing peptic ulcer Symptomatic prostatic hypertrophy Bladder neck obstruction Pyloroduodenal obstruction Elderly, debilitated patients **Other Conditions:**

DRUG INTERACTIONS

WARNINGS

Overdosage of antihistamines, particularly in infants and young children, may producehallucinations, central nervous system depression, convulsions, respiratory and cardiac arrest, and death. Antihistamines may diminish mental alertness; conversely, particularly, in the young child, they may occasionally produce excitation. **Pediatric Patients:**

Antihistamines may have additive effects with alcohol and other CNS depressants, e.g., hypnotics, sedatives, tranquilizers, antianxiety agents. **CNS Depressants:**

Patients should be warned about engaging in activities requiring mental alertness and motor coordination, such as driving a car or operating machinery. Antihistamines are more likely to cause dizziness, sedation, and hypotension in elderly patients. (see). **Activities Requiring Mental Alertness:PRECAUTIONS, Geriatric Use**

PRECAUTIONS

Cyproheptadine has an atropine-like action and, therefore, should be used with caution in patients with: History of bronchial asthma Increased intraocular pressure Hyperthyroidism Cardiovascular disease Hypertension **General:**

Antihistamines may diminish mental alertness; conversely, particularly, in the young child, they may occasionally produce excitation. Patients should be warned about engaging in activities requiring mental alertness and motor coordination, such as driving a car or operating machinery. **Information for Patients:**

MAO inhibitors prolong and intensify the anticholinergic effects of antihistamines. Antihistamines may have additive effects with alcohol and other CNS depressants, e.g., hypnotics, sedatives, tranquilizers,

antianxiety agents. Drug Interactions:

Long-term carcinogenic studies have not been done with cyproheptadine. **Carcinogenesis**, **Mutagenesis**, **Impairment of Fertility:**

Cyproheptadine had no effect on fertility in a two-litter study in rats or a two generation study in mice at about 10 times the human dose.

Cyproheptadine did not produce chromosome damage in human lymphocytes or fibroblasts in vitro; high doses (10-4M) were cytotoxic. Cyproheptadine did not have any mutagenic effect in the Ames microbial mutagen test; concentrations of above 500 mcg/plate inhibited bacterial growth.

Reproduction studies have been performed in rabbits, mice, and rats at oral or subcutaneous doses up to 32 times the maximum recommended human oral dose and have revealed no evidence of impaired fertility or harm to the fetus due to cyproheptadine. Cyproheptadine has been shown to be fetotoxic in rats when given by intraperitoneal injection in doses four times the maximum recommended human oral dose. Two studies in pregnant women, however, have not shown that cyproheptadine increases the risk of abnormalities when administered during the first, second and third trimesters of pregnancy. No teratogenic effects were observed in any of the newborns. Nevertheless, because the studies in humans cannot rule out the possibility of harm, cyproheptadine should be used during pregnancy only if clearly needed. **Pregnancy**

Pregnancy Category B:

It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, and because of the potential for serious adverse reactions in nursing infants from cyproheptadine, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother (see). **Nursing Mothers:CONTRAINDICATIONS**

Safety and effectiveness in pediatric patients below the age of two have not been established. (see , and). **Pediatric Use:CONTRAINDICATIONS, Newborn or Premature Infants WARNINGS, Pediatric Patients**

Clinical studies of Cyproheptadine HCl tablets 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 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). **Geriatric Use:WARNINGS, Activities Requiring Mental Alertness**

Adverse reactions which have been reported with the use of antihistamines are as follows:

Sedation and sleepiness (often transient), dizziness, disturbed coordination, confusion, restlessness, excitation, nervousness, tremor, irritability, insomnia, paresthesias, neuritis, convulsions, euphoria, hallucinations, hysteria, faintness. **Central Nervous System:**

Allergic manifestation of rash and edema, excessive perspiration, urticaria, photosensitivity. **Integumentary:**

Acute labyrinthitis, blurred vision, diplopia, vertigo, tinnitus. **Special Senses:**

Hypotension, palpitation, tachycardia, extrasystoles, anaphylactic shock. **Cardiovas cular:**

Hemolytic anemia, leukopenia, agranulocytosis, thrombocytopenia. Hematologic:

Cholestasis, hepatic failure, hepatitis, hepatic function abnormality, dryness of mouth, epigastric distress, anorexia, nausea, vomiting, diarrhea, constipation, jaundice. **Digestive System:**

Urinary frequency, difficult urination, urinary retention, early menses. **Genitourinary:**

Dryness of nose and throat, thickening of bronchial secretions, tightness of chest and wheezing, nasal

stuffiness. Respiratory:

Fatigue, chills, headache, increased appetite/weight gain. Miscellaneous:

OVERDOSAGE

Antihistamine overdosage reactions may vary from central nervous system depression to stimulation especially in pediatric patients. Also, atropine-like signs and symptoms (dry-mouth; fixed, dilated pupils; flushing etc.) as well as gastrointestinal symptoms may occur.

the patient should be induced to vomit with syrup of ipecac. *If vomiting has not occurred spontaneously*,

perform gastric lavage followed by activated charcoal. Isotonic or 1/2 isotonic saline is the lavage of choice. Precautions against aspiration must be taken especially in infants and children. *If patient is unable to vomit*,

When life threatening CNS signs and symptoms are present, intravenous physostigmine salicylate may be considered. Dosage and frequency of administration are dependent on age, clinical response and recurrence after response. (See package circulars for physostigmine products.)

as milk of magnesia, by osmosis draw water into the bowel and, therefore, are valuable, for their action in rapid dilution of bowel content. *Saline cathartics*,

Stimulants should not be used.

Vasopressors may be used to treat hypotension.

The oral LD of Cyproheptadine is 123 mg/kg, and 295 mg/kg in the mouse and rat, respectively. 50

DOSAGE AND ADMINISTRATION

DOSAGE SHOULD BE INDIVIDUALIZED ACCORDING TO THE NEEDS AND THE RESPONSE OF THE PATIENT.

Each tablet contains 4 mg of cyproheptadine hydrochloride.

The total daily dosage for pediatric patients may be calculated on the basis of body weight or body area using approximately 0.25 mg/kg/day or 8 mg per square meter of body surface (8 mg/m2). **Pediatric Patients:**

Age 2 to 6 years:

The usual dose is 2 mg (1/2 tablet) two or three times a day, adjusted as necessary to the size and response of the patient. The dose is not to exceed 12 mg a day.

The usual dose is 4 mg (1 tablet) two or three times a day adjusted as necessary to the size and response of the patient. The dose is not to exceed 16 mg a day. **Age 7 to 14 years:**

The total daily dose for adults should not exceed 0.5 mg/kg/day. The therapeutic range is 4 to 20 mg a day, with the majority of patients requiring 12 to 16 mg a day. An occasional patient may require as much as 32 mg a day for adequate relief. It is suggested that dosage be initiated with 4 mg (1 tablet) three times a day and adjusted according to the size and response of the patient. **Adults:**

HOW SUPPLIED

NDC:68151-2506-0 in a PACKAGE of 1 TABLETS

Cyproheptadine 4 MG TAB



CYPROHEPTADINE HYDROCHLORIDE

cyproheptadine hydrochloride tablet

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68151-2506(NDC:60258-850)
Route of Administration	ORAL		

Active Ingredient/Active Moiety			
Ingredient Name	Basis of Strength	Strength	
 CYPRO HEPTADINE HYDRO CHLO RIDE (UNII: NJ82J0F8QC) (CYPRO HEPTADINE - UNII:2YHB6175DO)	CYPRO HEPT ADINE HYDRO CHLO RIDE	4 mg	

Inactive Ingredients		
Ingredient Name	Strength	
CELLULOSE, MICRO CRYSTALLINE (UNII: OP1R32D61U)		
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)		
MAGNESIUM STEARATE (UNII: 70097M6I30)		
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)		

Product Characteristics				
Color	white	Score	2 pieces	
Shape	ROUND	Size	7mm	
Flavor		Imprint Code	СҮР	
Contains				

Packaging				
ı	# Item Code	Package Description	Marketing Start Date	Marketing End Date
ı	1 NDC:68151-2506-0	1 in 1 PACKAGE; Type 0: Not a Combination Product	06/15/2010	07/01/2016

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA040644	06/15/2010	

Labeler - Carilion Materials Management (079239644)

Registrant - Carilion Materials Management (079239644)

Establishment				
Name	Address	ID/FEI	Business Operations	
Carilion Materials Management		079239644	REPACK(68151-2506)	

Revised: 8/2016 Carilion Materials Management