TRIHEXYPHENIDYL HYDROCHLORIDE - trihexyphenidyl hydrochloride tablet REMEDYREPACK INC.

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## TRIHEXYPHENIDYL HYDROCHLORIDE TABLETS, USP

SPL UNCLASSIFIED

Rx only

### **DESCRIPTION**

Trihexyphenidyl HCl is a synthetic antispasmodic. Each tablet, for oral administration, contains 2 mg or 5 mg trihexyphenidyl HCl, and the following inactive ingredients: Anhydrous Lactose, Colloidal Silicon Dioxide, Corn Starch, Magnesium Stearate, and Microcrystalline Cellulose.

Trihexyphenidyl HCl is a white or slightly off white, crystalline powder, having not more than a very faint odor.

Trihexyphenidyl HCl is chemically designated as (±)- $\alpha$ -Cyclohexyl- $\alpha$ -phenyl-1-piperidinepropanol hydrochloride [52-49-3]. Its molecular formula is  $C_{20}H_{31}NO$ •HCl, and the molecular weight is 337.93. The structural formula is:

#### CLINICAL PHARMACOLOGY

Trihexyphenidyl exerts a direct inhibitory effect upon the parasympathetic nervous system. It also has a relaxing effect on smooth musculature; exerted both directly upon the muscle tissue itself and indirectly through an inhibitory effect upon the parasympathetic nervous system. Its therapeutic properties are similar to those of atropine although undesirable side effects are ordinarily less frequent and severe than with the latter.

#### **INDICATIONS & USAGE**

Trihexyphenidyl HCl tablets are indicated as an adjunct in the treatment of all forms of parkinsonism (postencephalitic, arteriosclerotic, and idiopathic). It is often useful as adjuvant therapy when treating these forms of parkinsonism with levodopa. Additionally, it is indicated for the control of extrapyramidal disorders caused by central nervous system drugs such as the dibenzoxazepines,

phenothiazines, thioxanthenes, and butyrophenones.

#### WARNINGS

Patients to be treated with trihexyphenidyl should have a gonioscope evaluation and close monitoring of intraocular pressures at regular periodic intervals.

#### **PRECAUTIONS**

Although trihexyphenidyl is not contraindicated for patients with cardiac, liver, or kidney disorders, or with hypertension, such patients should be maintained under close observation.

Since the use of trihexyphenidyl may in some cases continue indefinitely and since it has atropine-like properties, patients should be subjected to constant and careful long-term observation to avoid allergic and other untoward reactions. Inasmuch as trihexyphenidyl possesses some parasympatholytic activity, it should be used with caution in patients with glaucoma, obstructive disease of the gastrointestinal or genitourinary tracts, and in elderly males with possible prostatic hypertrophy. Geriatric patients, particularly over the age of 60, frequently develop increased sensitivity to the actions of drugs of this type, and hence, require strict dosage regulation. Incipient glaucoma may be precipitated by parasympatholytic drugs such as trihexyphenidyl.

Tardive dyskinesia may appear in some patients on long-term therapy with antipsychotic drugs or may occur after therapy with these drugs has been discontinued. Antiparkinsonism agents do not alleviate the symptoms of tardive dyskinesia, and in some instances may aggravate them. However, parkinsonism and tardive dyskinesia often coexist in patients receiving chronic neuroleptic treatment, and anticholinergic therapy with trihexyphenidyl may relieve some of these parkinsonism symptoms.

#### ADVERSE REACTIONS

Minor side effects, such as dryness of the mouth, blurring of vision, dizziness; mild nausea or nervousness, will be experienced by 30 to 50 percent of all patients. These sensations, however, are much less troublesome with trihexyphenidyl than with belladonna alkaloids and are usually less disturbing than unalleviated parkinsonism. Such reactions tend to become less pronounced, and even to disappear, as treatment continues. Even before these reactions have remitted spontaneously, they may often be controlled by careful adjustment of dosage form, amount of drug, or interval between doses.

Isolated instances of suppurative parotitis secondary to excessive dryness of the mouth, skin rashes, dilatation of the colon, paralytic ileus, and certain psychiatric manifestations such as delusions and hallucinations, plus one doubtful case of paranoia all of which may occur with any of the atropine-like drugs, have been reported rarely with trihexyphenidyl.

Patients with arteriosclerosis or with a history of idiosyncrasy to other drugs may exhibit reactions of mental confusion, agitation, disturbed behavior, or nausea and vomiting. Such patients should be allowed to develop a tolerance through the initial administration of a small dose and gradual increase in dose until an effective level is reached. If a severe reaction should occur, administration of the drug should be discontinued for a few days and then resumed at a lower dosage. Psychiatric disturbances can result from indiscriminate use (leading to overdosage) to sustain continued euphoria.

Potential side effects associated with the use of any atropine-like drugs include constipation, drowsiness, urinary hesitancy or retention, tachycardia, dilation of the pupil, increased intraocular tension, weakness, vomiting, and headache.

The occurrence of angle-closure glaucoma due to long-term treatment with trihexyphenidyl hydrochloride has been reported.

### **DOSAGE & ADMINISTRATION**

Dosage should be individualized. The initial dose should be low and then increased gradually, especially in patients over 60 years of age. Whether trihexyphenidyl HCl may best be given before or after meals should be determined by the way the patient reacts. Postencephalitic patients, who are usually more prone to excessive salivation, may prefer to take it after meals and may, in addition, require small amounts of atropine which, under such circumstances, is sometimes an effective adjuvant. If trihexyphenidyl HCl tends to dry the mouth excessively, it may be better to take it before meals, unless it causes nausea. If taken after meals, the thirst sometimes induced can be allayed by mint candies, chewing gum or water.

As initial therapy for parkinsonism, 1 mg of trihexyphenidyl HCl may be administered the first day. The dose may then be increased by 2 mg increments at intervals of three to five days, until a total of 6 to 10 mg is given daily. The total daily dose will depend upon what is found to be the optimal level. Many patients derive maximum benefit from this daily total of 6 to 10 mg, but some patients, chiefly those in the postencephalitic group, may require a total daily dose of 12 to 15 mg.

The size and frequency of dose of trihexyphenidyl HCl needed to control extrapyramidal reactions to commonly employed tranquilizers, notably the phenothiazines, thioxanthenes, and butyrophenones, must be determined empirically. The total daily dosage usually ranges between 5 and 15 mg, although, in some cases, these reactions have been satisfactorily controlled on as little as 1 mg daily. It may be advisable to commence therapy with a single 1 mg dose. If the extrapyramidal manifestations are not controlled in a few hours, the subsequent doses may be progressively increased until satisfactory control is achieved. Satisfactory control may sometimes be more rapidly achieved by temporarily reducing the dosage of the tranquilizer on instituting trihexyphenidyl HCl therapy and then adjusting dosage of both drugs until the desired ataractic effect is retained without onset of extrapyramidal reactions.

It is sometimes possible to maintain the patient on a reduced trihexyphenidyl HCl dosage after the reactions have remained under control for several days. Instances have been reported in which these reactions have remained in remission for long periods after trihexyphenidyl HCl therapy was discontinued.

When trihexyphenidyl HCl is used concomitantly with levodopa, the usual dose of each may need to be reduced. Careful adjustment is necessary, depending on side effects and degree of symptom control. Trihexyphenidyl HCl dosage of 3 to 6 mg daily, in divided doses, is usually adequate.

Trihexyphenidyl HCl may be substituted, in whole or in part, for other parasympathetic inhibitors. The usual technique is partial substitution initially, with progressive reduction in the other medication as the dose of trihexyphenidyl HCl is increased.

The total daily intake of trihexyphenidyl HCl tablets is tolerated best if divided into 3 doses and taken at mealtimes. High doses (>10 mg daily) may be divided into 4 parts, with 3 doses administered at mealtimes and the fourth at bedtime.

#### **HOW SUPPLIED**

Trihexyphenidyl HCl Tablets USP, 2 mg: White, round, embossed "W4" on one side and scored on the other side.

Bottles of 100 tablets.

Bottles of 1000 tablets.

Unit Dose Boxes of 100 tablets.

Trihexyphenidyl HCl Tablets USP, 5 mg: White, round, embossed "WW 763" on one side and scored on the other side.

Bottles of 100 tablets.

Bottles of 1000 tablets.

Unit Dose Boxes of 100 tablets.

#### STORAGE AND HANDLING

Store at 20-25°C (68-77°F) [See USP Controlled Room Temperature].

Dispense in a tight, light-resistant container as defined in the USP using a child-resistant closure.

Manufactured by:

West-ward Pharmaceutical Corp.

Eatontown, NJ 07724

Revised January 2003

## PACKAGE LABEL.PRINCIPAL DISPLAY PANEL SECTION

DRUG: Trihexyphenidyl Hydrochloride GENERIC: Trihexyphenidyl Hydrochloride

**DOSAGE: TABLET** 

ADMINSTRATION: ORAL

NDC: 24236-496-20 STRENGTH:2 mg COLOR: white SHAPE: ROUND

SCORE: Two even pieces

SIZE: 8 mm IMPRINT: 100 QTY: 100 TRIHEXYPHENIDYL HCL

2 MG TAB QTY: 00100

NDC#:24236-0496-20 INT:SS ID#:W 4

EXPIRES: 09/10/2010 COL: White SHAPE: Round

LOT#: 012345

DIST: WESTWARD PHARMA EATONTOWN NJ 07724 WESTWARD PHARMA EATONTOWN NJ 07724 MFG:

A Caution Federal law prohibits transfer of this drug to any person other than for whom it was prescribed

B. Store at a temperature between 15 degree C and 3D degree C (59 degree F and 86 degree F) (see USP)

C. Re-packaged by: RemedyRepack Inc. 655 Kolter Dr. Indiana, PA 15701, 1-724-465-8762





## TRIHEXYPHENIDYL HYDROCHLORIDE

trihexyphenidyl hydrochloride tablet

#### **Product Information**

Product Type	HUMAN PRESCRIPTION DRUG LABEL	Item Code (Source)	NDC:24236- 496(NDC:0143-1764)
Route of Administration	ORAL	DEA Schedule	

Active Ingredient/Active Moiety			
Ingredient Name	Basis of Strength	Strength	
TRIHEXYPHENIDYL HYDRO CHLO RIDE (TRIHEXYPHENIDYL)	TRIHEXYPHENIDYL HYDROCHLORIDE	2 mg	

Inactive Ingredients		
Ingredient Name	Strength	
ANHYDROUS LACTOSE		
COLLO IDAL SILICON DIO XIDE		
STARCH, CORN		
MAGNESIUM STEARATE		
CELLULO SE, MICRO CRYSTALLINE		

Product Characteristics			
Color	white	Score	2 pieces
Shape	ROUND (TABLET)	Size	8 mm
Flavor		Imprint Code	W;4
Contains			

Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:24236-496-20	100 in 1 CANISTER		

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA040337	03/27/2013	

# Labeler - REMEDYREPACK INC. (829572556)

Revised: 3/2013 REMEDYREPACK INC.