MECLIZINE HYDROCHLORIDE- meclizine hydrochloride tablet Direct_Rx

MECLIZINE HYDROCHLORIDE

Meclizine hydrochloride tablets are indicated for the treatment of vertigo associated with diseases affecting the vestibular system in adults.

2.1 Recommended Dosage

The recommended dosage is 25 mg to 100 mg daily administered orally, in divided doses, depending upon clinical response.

2.2 Administration Instructions

Tablets

Meclizine hydrochloride tablets must be swallowed whole.

12.5 mg: light blue colored, oval shaped tablets with "AN 441" debossed on one side and plain on the other side.

25 mg: light yellow colored, oval shaped tablets with "AN 442" debossed on one side and plain on the other side.

50 mg: white, oval shaped, partially bisected tablets with "AN 444" debossed on one side and plain on the other side.

Meclizine hydrochloride tablets are contraindicated in patients with a hypersensitivity to meclizine or any of the inactive ingredients [see Adverse Reactions (6) and Description (11)].

5.1 Drowsiness

Since drowsiness may occur with use of meclizine hydrochloride, patients should be warned of this possibility and cautioned against driving a car or operating dangerous machinery.

Patients should avoid alcoholic beverages while taking meclizine hydrochloride [see Drug Interactions (7.1)].

5.2 Concurrent Medical Conditions

Because of its potential anticholinergic action, meclizine hydrochloride should be used with caution in patients with asthma, glaucoma, or enlargement of the prostate gland.

The following adverse reactions associated with the use of meclizine hydrochloride were identified in clinical studies or postmarketing reports. Because some of these reactions were reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Anaphylactic reaction, drowsiness, dry mouth, headache, fatigue, and vomiting. On rare occasions blurred vision has been reported.

7.1 CNS Depressants

There may be increased CNS depression when meclizine hydrochloride is administered concurrently with other CNS depressants, including alcohol [see Warnings and Precautions (5.1)].

7.2 CYP2D6 Inhibitors

Based on in-vitro evaluation, meclizine is metabolized by CYP2D6. Therefore, there is a possibility for a drug interaction between meclizine hydrochloride and CYP2D6 inhibitors. Therefore, monitor for adverse reactions and clinical effect accordingly.

8.1 Pregnancy

Risk Summary

Data from epidemiological studies have not generally indicated a drug-associated risk of major birth defects with meclizine during pregnancy. However, in a published study, an increased incidence of fetal malformations was observed following oral administration of meclizine to pregnant rats during the period of organogenesis, at doses similar to those used clinically. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively. The background risk of major birth defects and miscarriage for the indicated population is unknown.

Data

Human Data

Epidemiological studies reporting on pregnancies exposed to meclizine have not identified an association between the use of meclizine during pregnancy and an increased risk of major birth defects.

Animal Data

In a published study, oral administration of meclizine (25 mg/kg to 250 mg/kg) to pregnant rats during the period of organogenesis resulted in a high incidence of fetal malformations. These effects occurred at doses as low as 25 mg/kg, which is approximately 2 times the maximum recommended human dose (100 mg) on a body surface area (mg/m2) basis.

8.2 Lactation

Risk Summary

There are no data on the presence of meclizine in human milk, the effects on the breastfed infant, or the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for meclizine hydrochloride and any potential adverse effects on the breastfed infant from meclizine hydrochloride or from the underlying maternal condition.

8.4 Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

8.5 Geriatric Use

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.

8.6 Hepatic Impairment

The effect of hepatic impairment on the pharmacokinetics of meclizine has not been evaluated. As meclizine hydrochloride undergoes metabolism, hepatic impairment may result in increased systemic exposure of meclizine. Treatment with meclizine hydrochloride should be administered with caution in patients with hepatic impairment.

8.7 Renal Impairment

The effect of renal impairment on the pharmacokinetics of meclizine has not been evaluated. Because of a potential for drug/metabolite accumulation, meclizine hydrochloride should be administered with caution in patients with renal impairment and in the elderly, as renal function generally declines with age.

8.8 Genetic CYP2D6 Polymorphism

The genetic polymorphism of CYP2D6 that results in poor-, intermediate-, extensive-, and ultrarapid metabolizer phenotypes could contribute to large inter-individual variability in meclizine exposure. Therefore, when meclizine hydrochloride is administered to patients with CYP2D6 polymorphism, monitor for adverse reactions and clinical effect accordingly.

Meclizine hydrochloride, a histamine (H1) receptor antagonist, is a white or slightly yellowish,

crystalline powder. It has the following structural formula:

[1]

Chemically, meclizine hydrochloride is 1-(p-chloro- α -phenylbenzyl)-4-(m-methylbenzyl) piperazine dihydrochloride monohydrate.

Inactive ingredients for the tablets are: colloidal silicon dioxide, lactose monohydrate, magnesium stearate, microcrystalline cellulose, sodium starch glycolate and talc. The 12.5 mg tablets also contain FD&C Blue #1 Aluminum Lake. The 25 mg tablets also contain D&C Yellow #10 Aluminum Lake.

Each meclizine hydrochloride 12.5 mg tablet contains 12.5 mg of meclizine dihydrochloride equivalent to 10.53 mg of meclizine free base.

Each meclizine hydrochloride 25 mg tablet contains 25 mg of meclizine dihydrochloride equivalent to 21.07 mg of meclizine free base.

Each meclizine hydrochloride 50 mg tablet contains 50 mg of meclizine dihydrochloride equivalent to 42.14 mg of meclizine free base.

12.1 Mechanism of Action

The precise mechanism by which meclizine exerts its therapeutic effect is unknown but is presumed to involve antagonism of the histamine H1 receptor.

12.2 Pharmacodynamics

There are no relevant pharmacodynamic data regarding meclizine.

12.3 Pharmacokinetics

The available pharmacokinetic information for meclizine following oral administration has been summarized from published literature.

Absorption

Meclizine is absorbed after oral administration with maximum plasma concentrations reaching at a median Tmax value of 3 hours post-dose (range: 1.5 to 6 hours) for the tablet dosage form.

Distribution

Drug distribution characteristics for meclizine in humans are unknown.

Elimination

Meclizine has a plasma elimination half-life of about 5 to 6 hours in humans.

Metabolism In an in vitro metabolic study using human hepatic microsome and recombinant CYP enzyme, CYP2D6 was found to be the dominant enzyme for metabolism of meclizine.

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

Animal studies to assess the carcinogenic potential of meclizine have not been conducted.

Mutagenesis

Genetic toxicology studies of meclizine have not been conducted.

Impairment of Fertility

Animal studies to assess the effects of meclizine on fertility and early embryonic development have not been conducted.

16.1 How Supplied

Meclizine Hydrochloride Tablets USP, 12.5 mg are supplied as light blue colored, oval shaped tablets

with "AN 441" debossed on one side and plain on the other side.

They are available as follows:

Bottles of 30:

Bottles of 100:

Bottles of 500:

Bottles of 1000:

Blister packs:

(Packages of 100 unit doses, 10 cards of 10 tablets each)

Meclizine Hydrochloride Tablets USP, 25 mg are supplied as light yellow colored, oval shaped tablets with "AN 442" debossed on one side and plain on the other side.

They are available as follows:

Bottles of 30:

Bottles of 100:

Bottles of 500:

Bottles of 1000:

Blister packs:

(Packages of 100 unit doses, 10 cards of 10 tablets each)

Meclizine Hydrochloride Tablets USP, 50 mg are supplied as white, oval shaped, partially bisected tablets with "AN 444" debossed on one side and plain on the other side.

They are available as follows:

Bottles of 30:

Bottles of 100:

Bottles of 500:

Bottles of 1000:

Blister packs:

(Packages of 100 unit doses, 10 cards of 10 tablets each)

16.2 Storage and Handling

Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].

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

Keep this and all medication out of the reach of children.

Administration Instructions

Advise patients that the tablets must be swallowed whole [see Dosage and Administration (2.1)].

Adverse Reactions

Advise patients that meclizine hydrochloride may cause anaphylactic reaction, drowsiness, dry mouth, headache, fatigue, vomiting and, on rare occasions, blurred vision [see Warnings and Precautions (5.1), Adverse Reactions (6)].

Inform patients that meclizine hydrochloride may impair their ability to engage in potentially dangerous activities, such as operating machinery or vehicles.

Concomitant Drug Interactions

Advise patients regarding medications that should not be taken in combination with meclizine hydrochloride or that may necessitate increased monitoring [see Drug Interactions (7.1, 7.2)]. Inform patients that alcohol may increase adverse reactions.

Concurrent Medical Conditions

Advise patients to notify their healthcare provider about all of their medical conditions, including if they are pregnant or plan to become pregnant or if they are breastfeeding [see Warnings and Precautions (5.2), Use in Specific Populations (8.1, 8.2)].

Distributed by:

Amneal Pharmaceuticals LLC

Bridgewater, NJ 08807

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MECLIZINE HYDROCH meclizine hydrochloride tablet	LORIDE			
Product Information				
Product T ype	HUMAN PRESCRIPTION DRUG	Item Code (Sour	ce) NDC:72189-048(NDC:65162-442)
Route of Administration	ORAL			
Active Ingredient/Active Moi	etv			
Ingredient Name Basis of Stren				n Strengtl
MECLIZINE HYDRO CHLORIDE (UNI		MI:3L5TQ84570) MI		
Inactive Ingredients				
	Ingredient Name			Strength
SILICON DIOXIDE (UNII: ETJ7Z6XBU	4)			
LACTOSE MONOHYDRATE (UNII: EV	VQ57Q8I5X)			
MAGNESIUM STEARATE (UNII: 7009)	7M6I30)			
CELLULOSE, MICROCRYSTALLINE	(UNII: OP1R32D61U)			
D&C YELLOW NO. 10 (UNII: 35SW5U	SQ3G)			
SODIUM STARCH GLYCOLATE TYP	E A POTATO (UNII: 5856J3G2A	2)		

T	ALC (UNII: 7SEV7J4R1U	J)			
P	roduct Character	istics			
С	olor	yellow ((Light))	Score		no score
S	hape	OVAL	Size		13mm
F	avor		Imprint Code		AN;442
С	ontains				
P	ackaging				
P #	ackaging Item Code	Package Description		Marketing Start Date	Marketing End Date
#	Item Code	Package Description 90 in 1 BOTTLE; Type 0: Not a Combination	n Product	Marketing Start Date	Marketing End Date
#	Item Code	°	n Product		Marketing End Date
#	Item Code	90 in 1 BOTTLE; Type 0: Not a Combination	n Product		Marketing End Date
# 1	Item Code NDC:72189-048-90	90 in 1 BOTTLE; Type 0: Not a Combination			Marketing End Date Marketing End Date
# 1 N	Item Code NDC:72189-048-90 S	90 in 1 BOTTLE; Type 0: Not a Combination		09/19/2019	

Labeler - Direct_Rx (079254320)

Registrant - Direct_Rx (079254320)

Establishment					
ress ID/F	EI Business Operations				
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