

# Histazine Tablets

## Summary of Product Characteristics

### 1. Name of the medicinal product

Histazine Tablets

### 2. Qualitative and quantitative composition

Each tablet contains 10 mg cetirizine dihydrochloride.

Excipients with known effects: one tablet contains 35 mg lactose.

For the full list of excipients, see section 6.1.

### 3. Pharmaceutical form

Tablets

Round, biconvex, white film coated tablet with break line on one side.

The tablet can be divided into 2 equal doses.

### 4. Clinical particulars

#### 4.1 Therapeutic indications

Antihistaminic drug for the treatment of allergies.

For the treatment of seasonal and perennial allergic rhinitis and chronic idiopathic urticaria in children aged 6 years and over and adults.

#### 4.2 Posology and method of administration

##### Posology

Adults and children aged 12 years and over: maximum one tablet (10 mg) per day.

##### Special population

##### *Elderly*

Data do not suggest that the dose needs to be reduced in elderly subjects provided that the renal function is normal.

##### *Renal impairment*

There are no data to document the efficacy/safety ratio in patients with renal impairment. Since cetirizine is mainly excreted via renal route (see section 5.2), in cases no alternative treatment can be used, the dosing intervals must be individualized according to renal function. Refer to the following table and adjust the dose as indicated. To use this dosing table, an estimate of the patient's creatinine clearance (CL<sub>cr</sub>) in mL/min is needed. The CL<sub>cr</sub> (mL/min) may be estimated from serum creatinine

$$CL_{cr} = \frac{[140 - \text{age}(\text{years})] \times \text{weight}(\text{kg})}{72 \times \text{serum creatinine}(\text{mg/dl})} (\times 0.85 \text{ for women})$$

(mg/dl) determination using the following formula:

Dosing adjustments for adult patients with impaired renal function

Group	Creatinine clearance (mL/min)	Dosage and frequency
Normal	≥80	10 mg once daily
Mild	50 – 79	10 mg once daily
Moderate	30 – 49	5 mg once daily

Severe	<30	5 mg once every 2 days
End-stage renal disease - Patients undergoing dialysis	<10	Contra-indicated

#### *Hepatic impairment*

No dose adjustment is needed in patients with solely hepatic impairment. In patients with hepatic impairment and renal impairment, adjustment of the dose is recommended (see Renal impairment above).

#### *Paediatric Population*

The tablet formulation should not be used in children under 6 years of age as it does not allow the necessary dose adjustments

Children aged 6-12 years: half a tablet (5 mg) twice a day in the morning and in the evening or one tablet (10 mg) once a day.

Children weighing less than 30 kg: half a tablet (5 mg) once a day.

In paediatric patients suffering from renal impairment, the dose will have to be adjusted on an individual basis taking into account the renal clearance, age and body weight of the patient.

#### Method of administration

The tablets need to be swallowed with a glass of liquid.

### **4.3 Contraindications**

Hypersensitivity to the active substance, to any of the excipients listed in section 6.1, to hydroxyzine or to any piperazine derivatives.

Patients with severe renal impairment with a creatinine clearance below 10 ml/min.

### **4.4 Special warnings and precautions for use**

At therapeutic doses, no clinically significant interactions have been demonstrated with alcohol (for a blood alcohol level of 0.5 g/L). Nevertheless, precaution is recommended if alcohol is taken concomitantly.

Caution should be taken in patients with predisposition factors of urinary retention (e.g. spinal cord lesion, prostatic hyperplasia) as cetirizine may increase the risk of urinary retention.

Caution is recommended in epileptic patients and patients at risk of convulsions.

Response to allergy skin tests are inhibited by antihistamines and a wash-out period (of 3 days) is required before performing them.

Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicine.

Pruritus and/or urticaria may occur when cetirizine is stopped, even if those symptoms were not present before treatment initiation. In some cases, the symptoms may be intense and may require treatment to be restarted. The symptoms should resolve when the treatment is restarted.

#### Paediatric population

The use of the tablet formulation is not recommended in children aged less than 6 years since this formulation does not allow for appropriate dose adaptation. It is recommended to use a paediatric formulation of cetirizine.

### **4.5 Interaction with other medicinal products and other forms of interaction**

Due to the pharmacokinetic, pharmacodynamic and tolerance profile of cetirizine, no interactions are expected with this antihistamine. Actually, neither pharmacodynamic nor significant pharmacokinetic interaction was reported in drug-drug interactions studies performed, notably with pseudoephedrine or theophylline (400 mg/day).

The extent of absorption of cetirizine is not reduced with food, although the rate of absorption is decreased. In sensitive patients, the concurrent use of alcohol or other CNS depressants may cause additional reductions in alertness and impairment of performance, although cetirizine does not potentiate the effect of alcohol (0.5 g/L blood levels).

#### **4.6 Fertility, pregnancy and lactation**

##### Pregnancy

For cetirizine prospectively collected data on pregnancy outcomes do not suggest potential for maternal or foetal/embryonic toxicity above background rates.

Animal studies do not indicate direct or indirect harmful effects with respect to pregnancy, embryonal/fetal development, parturition or postnatal development. Caution should be exercised when prescribing to pregnant women.

##### Breast-feeding

Cetirizine is excreted in human milk at concentrations representing 25% to 90% those measured in plasma, depending on sampling time after administration. Therefore, caution should be exercised when prescribing cetirizine to lactating women.

##### Fertility

Limited data is available on human fertility but no safety concern has been identified.

Animal data show no safety concern for human reproduction.

#### **4.7 Effects on ability to drive and use machines**

Objective measurements of driving ability, sleep latency and assembly line performance have not demonstrated any clinically relevant effects at the recommended dose of 10 mg.

However, patients who experience somnolence should refrain from driving, engaging in potentially hazardous activities or operating machinery. They should not exceed the recommended dose and should take their response to the medicinal product into account.

#### **4.8 Undesirable effects**

##### Clinical studies

- *Overview*

Clinical studies have shown that cetirizine at the recommended dosage has minor undesirable effects on the CNS, including somnolence, fatigue, dizziness and headache. In some cases, paradoxical CNS stimulation has been reported.

Although cetirizine is a selective antagonist of peripheral H<sub>1</sub>-receptors and is relatively free of anticholinergic activity, isolated cases of micturition difficulty, eye accommodation disorders and dry mouth have been reported.

Instances of abnormal hepatic function with elevated hepatic enzymes accompanied by elevated bilirubin have been reported. Mostly this resolves upon discontinuation of the treatment with cetirizine dihydrochloride.

- *Listing of ADRs*

Double blind controlled clinical trials comparing cetirizine to placebo or other antihistamines at the recommended dosage (10 mg daily for cetirizine), of which quantified safety data are available, included more than 3200 subjects exposed to cetirizine.

From this pooling, the following adverse reactions were reported for cetirizine 10 mg in the placebo-controlled trials at rates of 1.0 % or greater:

<b>Adverse reactions (WHO-ART)</b>	<b>Cetirizine 10 mg (n= 3260)</b>	<b>Placebo (n = 3061)</b>
General disorders and administration site conditions Fatigue	1.63 %	0.95 %
Nervous system disorders Dizziness Headache	1.10 % 7.42 %	0.98 % 8.07 %
Gastro-intestinal disorders Abdominal pain Dry mouth Nausea	0.98 % 2.09 % 1.07 %	1.08 % 0.82 % 1.14 %
Psychiatric disorders Somnolence	9.63 %	5.00 %
Respiratory thoracic and mediastinal disorders Pharyngitis	1.29 %	1.34 %

Although statistically more common than under placebo, somnolence was mild to moderate in the majority of cases. Objective tests as demonstrated by other studies have demonstrated that usual daily activities are unaffected at the recommended daily dose in healthy young volunteers.

#### Paediatric population

Adverse reactions at rates of 1 % or greater in children aged from 6 months to 12 years, included in placebo-controlled clinical trials are:

<b>Adverse reactions (WHO-ART)</b>	<b>Cetirizine (n=1656)</b>	<b>Placebo (n =1294)</b>
Gastro-intestinal disorders Diarrhoea	1.0 %	0.6 %
Psychiatric disorders Somnolence	1.8 %	1.4 %
Respiratory thoracic and mediastinal disorders Rhinitis	1.4 %	1.1 %
General disorders and administration site conditions Fatigue	1.0 %	0.3 %

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#### Post-marketing experience

In addition to the adverse reactions reported during clinical studies and listed above, the following undesirable effects have been reported in post-marketing experience.

Undesirable effects are described according to MedDRA System Organ Class and by estimated frequency based on post-marketing experience.

Frequencies are defined as follows: Very common ( $\geq 1/10$ ); common ( $\geq 1/100$  to  $< 1/10$ ); uncommon

( $\geq 1/1,000$  to  $< 1/100$ ); rare ( $\geq 1/10,000$  to  $< 1/1,000$ ); very rare ( $< 1/10,000$ ), not known (cannot be estimated from the available data)

• *Blood and lymphatic disorders:*

Very rare: thrombocytopenia

• *Immune system disorders:*

Rare: hypersensitivity

Very rare: anaphylactic shock

• *Metabolism and nutrition disorders:*

Not known: increased appetite

• *Psychiatric disorders:*

Uncommon: agitation

Rare: aggression, confusion, depression, hallucination, insomnia  
Very rare: tics

Not known: suicidal ideation, nightmare

• *Nervous system*

*disorders:* Uncommon:

paraesthesia Rare:

convulsions

Very rare: dysgeusia, syncope, tremor, dystonia,

dyskinesia Not known: amnesia, memory impairment

• *Eye disorders:*

Very rare: accommodation disorder, blurred vision, oculogyration

• *Ear and labyrinth disorders:*

Not known: vertigo

• *Cardiac disorders:*

Rare: tachycardia

• *Gastro-intestinal disorders:*

Uncommon: diarrhoea

• *Hepatobiliary disorders:*

Rare: hepatic function abnormal (increased transaminases, alkaline phosphatase,  $\gamma$ -GT and bilirubin) Not known: hepatitis

• *Skin and subcutaneous tissue disorders:*

Uncommon: pruritus, rash

Rare: urticaria

Very rare: angioneurotic oedema, fixed drug eruption

Not known: acute generalized exanthematous

pustulosis

• *Musculoskeletal and connective tissue disorders*

Not known: arthralgia

• *Renal and urinary disorders*

Very rare: dysuria, enuresis

Not known: urinary retention

• *General disorders and administration site conditions:*

Uncommon: asthenia, malaise Rare: oedema

• *Investigations:*

Rare: weight increased

#### Description of selected adverse reactions

After discontinuation of cetirizine, pruritus (intense itching) and/or urticaria have been reported.

#### Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product.

Any suspected adverse events should be reported to the Ministry of Health according to the National Regulation by using an online form: <https://sideeffects.health.gov.il>

Side effects can also be reported to the following email: [safety@trima.co.il](mailto:safety@trima.co.il)

### **4.9 Overdose**

#### Symptoms

Symptoms observed after an overdose of cetirizine are mainly associated with CNS effects or with effects that could suggest an anticholinergic effect.

Adverse events reported after an intake of at least 5 times the recommended daily dose are: confusion, diarrhoea, dizziness, fatigue, headache, malaise, mydriasis, pruritus, restlessness, sedation, somnolence, stupor, tachycardia, tremor, and urinary retention.

#### Management

There is no known specific antidote to cetirizine.

Should overdose occur, symptomatic or supportive treatment is recommended. Gastric lavage may be considered shortly after ingestion of the drug.

Cetirizine is not effectively removed by haemodialysis.

## **5. Pharmacological properties**

### **5.1 Pharmacodynamic properties**

Pharmacotherapeutic group: antihistamine for systemic use, piperazine derivatives, ATC code: R06A E07

#### Mechanism of action

Cetirizine, a human metabolite of hydroxyzine, is a potent and selective antagonist of peripheral H<sub>1</sub>-receptors. *In vitro* receptor binding studies have shown no measurable affinity for other than H<sub>1</sub>-receptors.

#### Pharmacodynamics effects

In addition to its anti-H<sub>1</sub> effect, cetirizine was shown to display anti-allergic activities: at a dose of 10 mg once or twice daily, it inhibits the late phase recruitment of eosinophils, in the skin and conjunctiva of atopic subjects submitted to allergen challenge.

#### Clinical efficacy and safety

Studies in healthy volunteers show that cetirizine, at doses of 5 and 10 mg strongly inhibits the wheal and flare reactions induced by very high concentrations of histamine into the skin, but the correlation with efficacy is not established.

In a six-week, placebo-controlled study of 186 patients with allergic rhinitis and concomitant mild to moderate asthma, cetirizine 10 mg once daily improved rhinitis symptoms and did not alter pulmonary

function. This study supports the safety of administering cetirizine to allergic patients with mild to moderate asthma.

In a placebo-controlled study, cetirizine given at the high daily dose of 60 mg for seven days did not cause statistically significant prolongation of QT interval.

At the recommended dosage, cetirizine has demonstrated that it improves the quality of life of patients with perennial and seasonal allergic rhinitis.

#### Paediatric population

In a 35-day study in children aged 5 to 12, no tolerance to the antihistaminic effect (suppression of wheal and flare) of cetirizine was found. When a treatment with cetirizine is stopped after repeated administration, the skin recovers its normal reactivity to histamine within 3 days.

## **5.2 Pharmacokinetic properties**

### Absorption

The steady - state peak plasma concentrations is approximately 300 ng/mL and is achieved within  $1.0 \pm 0.5$  h. The distribution of pharmacokinetic parameters such as peak plasma concentration ( $C_{max}$ ) and area under curve (AUC), is unimodal.

The extent of absorption of cetirizine is not reduced with food, although the rate of absorption is decreased. The extent of bioavailability is similar when cetirizine is given as solutions, capsules or tablets.

### Distribution

The apparent volume of distribution is 0.50 l/kg. Plasma protein binding of cetirizine is  $93 \pm 0.3$  %. Cetirizine does not modify the protein binding of warfarin.

### Biotransformation

Cetirizine does not undergo extensive first pass metabolism.

### Elimination

The terminal half-life is approximately 10 hours and no accumulation is observed for cetirizine following daily doses of 10 mg for 10 days. About two third of the dose are excreted unchanged in urine.

### Linearity/Non-linearity

Cetirizine exhibits linear kinetics over the range of 5 to 60 mg.

### *Renal impairment*

The pharmacokinetics of the drug was similar in patients with mild impairment (creatinine clearance higher than 40 mL/min) and healthy volunteers. Patients with moderate renal impairment had a 3-fold increase in half-life and 70 % decrease in clearance compared to healthy volunteers.

Patients on hemodialysis (creatinine clearance less than 7 mL/min) given a single oral 10 mg dose of cetirizine had a 3- fold increase in half-life and a 70 % decrease in clearance compared to normals. Cetirizine was poorly cleared by haemodialysis. Dosing adjustment is necessary in patients with moderate or severe renal impairment (see section 4.2).

### *Hepatic impairment*

Patients with chronic liver diseases (hepatocellular, cholestatic, and biliary cirrhosis) given 10 or 20 mg of cetirizine as a single dose had a 50 % increase in half-life along with a 40 % decrease in clearance compared to healthy subjects.

Dosing adjustment is only necessary in patients with hepatic impairment if concomitant renal impairment is present.

*Elderly:* Following a single 10 mg oral dose, half-life increased by about 50% and clearance decreased by 40% in 16 elderly subjects compared to younger subjects. The decrease in cetirizine clearance in these elderly volunteers appeared to be related to their decreased renal function.

### *Paediatric population*

The half-life of cetirizine was about 6 hours in children of 6-12 years and 5 hours in children 2-6 years. In infants and toddlers aged 6 to 24 months, it is reduced to 3.1 hours.

### **5.3 Preclinical safety data**

Non-clinical data reveal no special hazard for humans based on conventional studies of safety pharmacology, repeated dose toxicity, genotoxicity, carcinogenic potential, toxicity to reproduction.

## **6. Pharmaceutical particulars**

### **6.1 List of excipients**

- microcrystalline cellulose
- lactose anhydrous
- magnesium stearate
- colloidal silicon dioxide
- HPMC
- titanium dioxide
- polyethylene glycol 400.

### **6.2 Incompatibilities**

Not applicable.

### **6.3 Shelf life**

The expiry date of the product is indicated on the packaging materials.

### **6.4 Special precautions for storage**

Store in a dry place below 25°C

### **6.5 Nature and contents of container**

The tablets are enclosed in a transparent, colorless, inert PVC blister strip thermo-sealed with a lacquered aluminium foil. These blister strips are housed in a carton box.

Boxes of 7 tablets, 10 tablets and 30 tablets. Not all pack sizes may be marketed.

### **6.6 Special precautions for disposal and other handling**

No special requirements.

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

## **7. Manufacturer and License holder**

Trima Israel Pharmaceutical Products Maabarot Ltd., Maabarot 4023000.

## **8. License number(s)**

104-99-28579-00

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