

**PACKAGE INSERT**  
**BILAXTEN 10 mg orodispersible tablets**

**1. NAME OF THE MEDICINAL PRODUCT**

Bilaxten 10 mg orodispersible tablets

**2. QUALITATIVE AND QUANTITATIVE COMPOSITION**

Each orodispersible tablet contains 10 mg of bilastine.

Excipient with known effect: each orodispersible tablet contains 0,0015 mg of ethanol.

For the full list of excipients, see section 6.1.

**3. PRODUCT DESCRIPTION**

Orodispersible tablet.

Round, slightly biconvex white tablets of 8 mm diameter

**4. CLINICAL PARTICULARS**

**4.1. Therapeutic indications**

Symptomatic treatment of allergic rhino-conjunctivitis (seasonal and perennial) and urticaria. Bilaxten 10mg Orodispersible Tablets is indicated in children aged 6-2 to 11 years with a body weight of at least 20-15 kg.

**4.2. Posology and method of administration**

Posology

*Paediatric population*

Children 6-2 to 11 years of age with a body weight of at least 20-15 kg

10 mg bilastine (1 orodispersible tablet) once daily for the relief of symptoms of allergic rhino-conjunctivitis (seasonal allergic rhinitis and perennial allergic rhinitis) and urticaria.

The orodispersible tablet should be taken one hour before or two hours after intake of food or fruit juice (see section 4.5).

~~Children under 6 years of age and under 20 kg~~

~~Currently available data are described in section 4.4, 4.8, 5.1 and 5.2 but no recommendation on a posology can be made. Therefore bilastine should not be used in this age group.~~

In adults and adolescents (over 12 years of age) the administration of bilastine 20 mg tablets is appropriate.

Duration of treatment:

For allergic rhino-conjunctivitis the treatment should be limited to the period of exposure to allergens. For seasonal allergic rhinitis treatment could be discontinued after the symptoms have resolved and reinitiated upon their reappearance. In perennial allergic rhinitis continued treatment may be proposed to the patients during the allergen exposure periods. For urticaria the duration of treatment depends on the type, duration and course of the complaints.

*Special populations*

Renal impairment

The safety and efficacy of bilastine in renally impaired children have not been established. Studies conducted in adults in special risk groups (renally impaired patients) indicate that it is not necessary to adjust the dose of bilastine in adults (see section 5.2).

#### Hepatic impairment

The safety and efficacy of bilastine in hepatically impaired children have not been established. There is no clinical experience in both adult and paediatric patients with hepatic impairment. However, since bilastine is not metabolized and is eliminated as unchanged in urine and feces, hepatic impairment is not expected to increase systemic exposure above the safety margin in adult patients. Therefore, no dosage adjustment is required in adult patients with hepatic impairment (see section 5.2).

#### Method of administration

##### Oral use

The orodispersible tablet is to be placed in the mouth where it disperses rapidly in saliva, so it can be easily swallowed.

~~Alternatively, the orodispersible tablet may be dispersed in water before administration.~~  
Alternatively, the orodispersible tablet may be dispersed in water before administration to reduce the risk of choking or aspiration in children. Grapefruit juice or any other fruit juices should not be used for dispersion (see section 4.5).

#### **4.3. Contraindications**

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

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

##### Paediatric population

Efficacy and safety of bilastine in children under 2 years of age and with a body weight less than 15 kg have not been established and there is little clinical experience in children aged 2 to 5 years, therefore bilastine should not be used in children under 2 years of age or with a body weight below 15 kg these age groups.

In patients with moderate or severe renal impairment, coadministration of bilastine with P-glycoprotein inhibitors, such as e.g. ketoconazole, erythromycin, cyclosporine, ritonavir or diltiazem, may increase plasmatic levels of bilastine and therefore increase the risk of adverse effects of bilastine. Therefore, coadministration of bilastine and P-glycoprotein inhibitors should be avoided in patients with moderate or severe renal impairment.

This medicine contains less than 1 mmol sodium (23 mg) per orodispersible tablet, that is to say essentially 'sodium free'.

This medicine contains 0.0015 mg of alcohol (ethanol) in each orodispersible tablet which is equivalent to 1 mg/100 g (0.001% w/w). The amount in one orodispersible tablet weighting 150 mg is equivalent to less than 0.00004 ml beer or 0.00002 ml wine.

The small amount of alcohol in this medicine will not have any noticeable effects.

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

Interaction studies have only been performed in adults and are summarised below.

Interaction with food: Food significantly reduces the oral bioavailability of bilastine 20 mg tablets by 30% and that of bilastine 10 mg orodispersible tablets by 20%.

Interaction with grapefruit juice: concomitant intake of bilastine 20 mg and grapefruit juice decreased bilastine bioavailability by 30%. This effect may also apply to other fruit juices. The degree of bioavailability decrease may vary between producers and fruits. The mechanism for this interaction is an inhibition of OATP1A2, an uptake transporter for which bilastine is a substrate (see section 5.2). Medicinal products that are substrates or inhibitors of OATP1A2, such as ritonavir or rifampicin, may likewise have the potential to decrease plasma concentrations of bilastine.

Interaction with ketoconazole or erythromycin: Concomitant intake of bilastine 20 mg o.d and ketoconazole 400 mg o.d or erythromycin 500 mg t.i.d. increased bilastine AUC 2-fold and Cmax 2-3 fold. These changes can be explained by interaction with intestinal efflux transporters, since bilastine is a substrate for P-gp and not metabolised (see section 5.2). These changes do not appear to affect the safety profile of bilastine and ketoconazole or erythromycin, respectively. Other medicinal products that are substrates or inhibitors of P-gp, such as cyclosporine, may likewise have the potential to increase plasma concentrations of bilastine.

Interaction with diltiazem: Concomitant intake of bilastine 20 mg o.d. and diltiazem 60 mg o.d. increased Cmax of bilastine by 50%. This effect can be explained by interaction with intestinal efflux transporters (see section 5.2), and does not appear to affect the safety profile of bilastine.

Interaction with alcohol: The psychomotor performance after concomitant intake of alcohol and 20 mg o.d. bilastine was similar to that observed after intake of alcohol and placebo.

Interaction with lorazepam: Concomitant intake of bilastine 20 mg o.d. and lorazepam 3 mg o.d. for 8 days did not potentiate the depressant CNS effects of lorazepam.

#### *Paediatric population*

No interaction studies have been performed in children with bilastine orodispersible tablets. As there is no clinical experience regarding the interaction of bilastine with other medicinal products, food or fruit juices in children, the results obtained in adult interactions studies should be at present taken into consideration when prescribing bilastine to children. There are no clinical data in children to state whether changes to the AUC or Cmax due to interactions affect the safety profile of bilastine.

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

### Pregnancy

There are no or limited amount of data from the use of bilastine in pregnant women.

Animal studies do not indicate direct or indirect harmful effects with respect to reproductive toxicity, parturition or postnatal development (see section 5.3). As a precautionary measure, it is preferable to avoid the use of Bilaxten during pregnancy.

### Breastfeeding

The excretion of bilastine in milk has not been studied in humans. Available pharmacokinetic data in animals have shown excretion of bilastine in milk (see section 5.3). A decision on whether to continue/discontinue breast-feeding or to discontinue/abstain from Bilaxten therapy must be made taking into account the benefit of breast-feeding for the child and the benefit of bilastine therapy for the mother.

## Fertility

There are no or limited amount of clinical data. A study in rats did not indicate any negative effect on fertility (see section 5.3).

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

A study performed in adults to assess the effects of bilastine on the ability to drive demonstrated that treatment with 20 mg bilastine did not affect driving performance. However, as the individual response to the medicinal product may vary, patients should be advised not to drive or use machines until they have established their own response to bilastine.

### 4.8. Undesirable effects

#### Summary of safety profile in paediatric population

During the clinical development the frequency, type and severity of adverse reactions in adolescents (12 years to 17 years) were the same as observed in adults. The information collected in this population (adolescents) during post-marketing surveillance has confirmed clinical trial findings.

The percentage of children (2-11 years) which reported adverse events (AEs) after treatment with bilastine 10 mg for allergic rhino-conjunctivitis or chronic idiopathic urticaria in a 12-week controlled clinical trial was comparable with patients receiving placebo (68.5% versus 67.5%).

The related AEs most commonly reported by ~~294~~328 children (2-11 years) receiving bilastine (orodispersible tablet formulation) during clinical trials (#260 children exposed in the clinical safety study, ~~34~~68 children exposed in the pharmacokinetic ~~studystudies~~) were headache, allergic conjunctivitis, rhinitis and abdominal pain. These related adverse events occurred with a comparable frequency in 249 patients receiving placebo.

#### Tabulated summary of adverse reactions in paediatric population

AEs at least possibly related to bilastine and reported in more than 0.1% of children (2-11 years) receiving bilastine during the clinical development are tabulated below.

Frequencies are assigned 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)

Rare, very rare and reactions with unknown frequency have not been included in the table.

System Organ Class		Bilastine 10 mg (n= <del>294</del> <u>328</u> )#	Placebo (n=249)
<b>Frequency</b>	<b>Adverse Reaction</b>		
<b>Infections and infestations</b>			
<del>Common</del> <u>Uncom</u> <u>mon</u>	Rhinitis	3 ( <del>1.0</del> <u>0.9</u> %)	3 (1.2 %)
<b>Nervous system disorders</b>			
Common	Headache	6 ( <del>2.1</del> <u>1.8</u> %)	3 (1.2 %)
Uncommon	Dizziness	1 (0.3 %)	0 (0.0 %)

	Loss of consciousness	1 (0.3 %)	0 (0.0 %)
<b>Eye disorders</b>			
Common	Allergic conjunctivitis	4 (1.24 %)	5 (2.0 %)
Uncommon	Eye irritation	1 (0.3 %)	0 (0.0 %)
<b>Gastrointestinal disorders</b>			
Common	Abdominal pain / Upper abdominal pain	3 (1.00.9 %)	3 (1.2 %)
Uncommon	Diarrhoea	2 (0.76 %)	0 (0.0 %)
	Nausea	1 (0.3 %)	0 (0.0 %)
	Lip swelling	1 (0.3 %)	0 (0.0 %)
<b>Skin and subcutaneous tissue disorders</b>			
Uncommon	Eczema	1 (0.3 %)	0 (0.0 %)
	Urticaria	2 (0.76 %)	2 (0.8 %)
<b>General disorders and administration site conditions</b>			
Uncommon	Fatigue	2-3 (0.79 %)	0 (0.0 %)

#260 children exposed in the clinical safety study, 31-68 children exposed in the pharmacokinetic studies

#### Description of selected adverse reactions in paediatric population

Headache, abdominal pain, allergic conjunctivitis and rhinitis were observed either in children treated with bilastine 10 mg or with placebo. The frequency reported was 2-11.8% vs. 1.2% for headache; 1-00.9% vs. 1.2% for abdominal pain; 1.24% vs. 2.0% for allergic conjunctivitis, and 1-0 0.9% vs. 1.2% for rhinitis.

#### Summary of safety profile in adult and adolescent patients

The incidence of adverse events in adult and adolescent patients suffering from allergic rhinoconjunctivitis or chronic idiopathic urticaria treated with 20 mg bilastine in clinical trials was comparable with the incidence in patients receiving placebo (12.7% versus 12.8%).

The phase II and III clinical trials performed during the clinical development included 2525 adult and adolescent patients treated with different doses of bilastine, of which 1697 received bilastine 20 mg. In these trials 1362 patients received placebo. The ADRs most commonly reported by patients receiving 20 mg bilastine for the indication of allergic rhinoconjunctivitis or chronic idiopathic urticaria were headache, somnolence, dizziness, and fatigue. These adverse events occurred with a comparable frequency in patients receiving placebo.

#### Tabulated summary of adverse reactions in adult and adolescent patients

ADRs at least possibly related to bilastine and reported in more than 0.1% of the patients receiving 20 mg bilastine during the clinical development (N = 1697) are tabulated below.

Frequencies are assigned 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)

Rare, very rare and reactions with unknown frequency have not been included in the table.

System Organ Class Frequency Adverse reaction		Bilastine 20 mg N=1697	All Bilastine Doses N=2525	Placebo N=1362
<b>Infections and infestations</b>				
Uncommon	Oral herpes	2 (0.12%)	2 (0.08%)	0 (0.0%)
<b>Metabolism and nutrition disorders</b>				
Uncommon	Increased appetite	10 (0.59%)	11 (0.44%)	7 (0.51%)
<b>Psychiatric disorders</b>				
Uncommon	Anxiety	6 (0.35%)	8 (0.32%)	0 (0.0%)
	Insomnia	2 (0.12%)	4 (0.16%)	0 (0.0%)
<b>Nervous system disorders</b>				
Common	Somnolence	52 (3.06%)	82 (3.25%)	39 (2.86%)
	Headache	68 (4.01%)	90 (3.56%)	46 (3.38%)
Uncommon	Dizziness	14 (0.83%)	23 (0.91%)	8 (0.59%)
<b>Ear and labyrinth disorders</b>				
Uncommon	Tinnitus	2 (0.12%)	2 (0.08%)	0 (0.0%)
	Vertigo	3 (0.18%)	3 (0.12%)	0 (0.0%)
<b>Cardiac disorders</b>				
Uncommon	Right bundle branch block	4 (0.24%)	5 (0.20%)	3 (0.22%)
	Sinus arrhythmia	5 (0.30%)	5 (0.20%)	1 (0.07%)
	Electrocardiogram QT prolonged	9 (0.53%)	10 (0.40%)	5 (0.37%)
	Other ECG abnormalities	7 (0.41%)	11 (0.44%)	2 (0.15%)
<b>Respiratory, thoracic and mediastinal disorders</b>				
Uncommon	Dyspnoea	2 (0.12%)	2 (0.08%)	0 (0.0%)
	Nasal discomfort	2 (0.12%)	2 (0.08%)	0 (0.0%)
	Nasal dryness	3 (0.18%)	6 (0.24%)	4 (0.29%)
<b>Gastrointestinal disorders</b>				
Uncommon	Upper abdominal pain	11 (0.65%)	14 (0.55%)	6 (0.44%)
	Abdominal pain	5 (0.30%)	5 (0.20%)	4 (0.29%)
	Nausea	7 (0.41%)	10 (0.40%)	14 (1.03%)
	Stomach discomfort	3 (0.18%)	4 (0.16%)	0 (0.0%)
	Diarrhoea	4 (0.24%)	6 (0.24%)	3 (0.22%)
	Dry mouth	2 (0.12%)	6 (0.24%)	5 (0.37%)
	Dyspepsia	2 (0.12%)	4 (0.16%)	4 (0.29%)
	Gastritis	4 (0.24%)	4 (0.16%)	0 (0.0%)
<b>Skin and subcutaneous tissue disorders</b>				

System Organ Class Frequency Adverse reaction		Bilastine 20 mg N=1697	All Bilastine Doses N=2525	Placebo N=1362
Uncommon	Pruritus	2 (0.12%)	4 (0.16%)	2 (0.15%)
<b>General disorders and administration site conditions</b>				
Uncommon	Fatigue	14 (0.83%)	19 (0.75%)	18 (1.32%)
	Thirst	3 (0.18%)	4 (0.16%)	1 (0.07%)
	Improved pre-existing condition	2 (0.12%)	2 (0.08%)	1 (0.07%)
	Pyrexia	2 (0.12%)	3 (0.12%)	1 (0.07%)
	Asthenia	3 (0.18%)	4 (0.16%)	5 (0.37%)
<b>Investigations</b>				
Uncommon	Increased gamma-glutamyltransferase	7 (0.41%)	8 (0.32%)	2 (0.15%)
	Alanine aminotransferase increased	5 (0.30%)	5 (0.20%)	3 (0.22%)
	Aspartate aminotransferase increased	3 (0.18%)	3 (0.12%)	3 (0.22%)
	Blood creatinine increased	2 (0.12%)	2 (0.08%)	0 (0.0%)
	Blood triglycerides increased	2 (0.12%)	2 (0.08%)	3 (0.22%)
	Increased weight	8 (0.47%)	12 (0.48%)	2 (0.15%)

**Frequency not known** (cannot be estimated from the available data): Palpitations, tachycardia, hypersensitivity reactions (such as anaphylaxis, angioedema, dyspnoea, rash, localised oedema/local swelling, and erythema), and vomiting have been observed during the post-marketing period.

#### Description of selected adverse reactions in adult and adolescent patients

Somnolence, headache, dizziness and fatigue were observed either in patients treated with bilastine 20 mg or with placebo. The frequency reported was 3.06 % vs. 2.86% for somnolence; 4.01% vs. 3.38% for headache; 0.83% vs. 0.59% for dizziness, and 0.83% vs. 1.32% for fatigue.

The information collected during the post-marketing surveillance has confirmed the safety profile observed during the clinical development.

#### 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. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed. You may report any side effects or adverse drug reactions directly to the National Centre for Adverse Drug Reaction Monitoring by visiting the website [npra.gov.my](http://npra.gov.my) [Consumer → Reporting Side Effects to Medicines (ConSERF) or Vaccines(AEFI)]”

## 4.9. Overdose

There are no data for overdose in children.

Information regarding acute overdose of bilastine is retrieved from the experience of clinical trials conducted during the development in adults and the post-marketing surveillance. In clinical trials, after administration of bilastine at doses 10 to 11 times the therapeutic dose (220 mg as single dose or 200 mg/day for 7 days) to 26 adult healthy volunteers, frequency of treatment emergent adverse events was two times higher than with placebo. The adverse reactions most frequently reported were dizziness, headache and nausea. No serious adverse events and no significant prolongation in the QTc interval were reported. The information collected in the post-marketing surveillance is consistent with that reported in clinical trials.

Critical evaluation of bilastine's multiple dose (100 mg x4 days) effect on ventricular repolarization by a "thorough QT/QTc cross-over study" involving 30 healthy adult volunteers did not show significant QTc prolongation.

In the event of overdose symptomatic and supportive treatment is recommended.

There is no known specific antidote to bilastine.

## 5. PHARMACOLOGICAL PROPERTIES

### 5.1. Pharmacodynamic properties

**Pharmacotherapeutic group:** Antihistamines for systemic use; Other antihistamines for systemic use.

**ATC code:** R06AX29.

#### Mechanism of action

Bilastine is a non-sedating, long-acting histamine antagonist with selective peripheral H1 receptor antagonist affinity and no affinity for muscarinic receptors.

Bilastine inhibited histamine-induced wheal and flare skin reactions for 24 hours following single doses.

#### Clinical efficacy

The efficacy of bilastine has been studied in adults and adolescents. According to guidelines, the proved efficacy in adults and adolescents can be extrapolated to children, having demonstrated that the systemic exposure with 10 mg bilastine in children from 26 to 11 years with a body weight of at least 20-15 kg is equivalent to the exposure in adults with 20 mg bilastine (see section 5.2). The extrapolation from adult and adolescent data is deemed appropriate for this product as the pathophysiology of allergic rhino-conjunctivitis and urticaria is the same for all age groups.

In clinical trials performed in adult and adolescent patients with allergic rhino-conjunctivitis (seasonal and perennial), bilastine 20 mg, administered once daily for 14-28 days, was effective in relieving symptoms such as sneezing, nasal discharge, nasal itching, nasal congestion, ocular itching, tearing and ocular redness. Bilastine effectively controlled symptoms for 24 hours.

In two clinical trials performed in patients with chronic idiopathic urticaria, bilastine 20 mg, administered once daily for 28 days was effective in relieving the itching intensity and the number and size of wheals, as well as the patients discomfort due to urticaria. Patients improved their sleep conditions and their quality of life.

No clinically relevant prolongation of QTc interval or any other cardiovascular effect has been observed in the clinical trials performed with bilastine, even at doses of 200 mg daily (10 times the clinical dose) for 7 days in 9 subjects, or even when coadministered with P-gp inhibitors, such as

ketoconazole (24 subjects) and erythromycin (24 subjects). Additionally a thorough QT study including 30 volunteers has been performed.

In controlled clinical trials at the recommended dose of 20 mg once daily, the CNS safety profile of bilastine was similar to placebo and the incidence of somnolence was not statistically different from placebo. Bilastine at doses of up to 40 mg q.d. did not affect psychomotor performance in clinical trials and did not affect driving performance in a standard driving test.

Older patients ( $\geq 65$  years) included in phase II and III studies showed no difference in efficacy or safety with respect to younger patients.

#### Clinical safety

In a 12-week controlled clinical trial with children aged 2-11 years (total 509 children, 260 treated with bilastine 10 mg: 58 at age 2 to <6 years, 105 at age 6 to <9 years and 97 at 9 to <12 years and 249 treated with placebo: 58 at age 2 to <6 years, 95 at age 6 to <9 years and 96 at 9 to <12 years), at the recommended paediatric dose of 10 mg once daily, the safety profile of bilastine (n=260) was similar to placebo (n=249), with adverse drug reactions seen in 5.8% and 8.0% of patients taking bilastine 10 mg and placebo, respectively. Both bilastine 10 mg and placebo showed a slight decrease in somnolence and sedation scores on the Paediatric Sleep Questionnaire during this study, with no statistically significant differences between treatment groups. In these children aged 2 to 11 years, no significant differences in QTc were observed following 10 mg bilastine daily compared with placebo. Quality of Life questionnaires specific for children with allergic rhino-conjunctivitis or chronic urticaria showed a general increase in scores over 12 weeks with no statistically significant difference between the bilastine and placebo arms. The total population of 509 children encompassed: 479 subjects with allergic rhino-conjunctivitis and 30 subjects diagnosed of chronic urticaria. 260 children received bilastine, 252 (96.9%) for allergic rhino-conjunctivitis and 8 (3.1%) for chronic urticaria. In analogy, 249 children received placebo, 227 (91.2%) for allergic rhino-conjunctivitis and 22 (8.8%) for chronic urticaria.

#### Paediatric population

~~The European Medicines Agency has waived the obligation to submit the results of studies with bilastine in all subsets of the paediatric population below 2 years of age (see section 4.2 for information on paediatric use).~~

## **5.2. Pharmacokinetic properties**

#### Absorption

Bilastine is rapidly absorbed after oral administration with a time to maximum plasma concentration of around 1.3 hours. No accumulation was observed. The mean value of bilastine oral bioavailability is 61%.

#### Distribution

In vitro and in vivo studies have shown that bilastine is a substrate of Pgp (see section 4.5 “Interaction with ketoconazole or erythromycin” and “Interaction with diltiazem”) and OATP (see section 4.5 “Interaction with grapefruit juice”). At therapeutic doses bilastine is 84-90% bound to plasma proteins.

#### Biotransformation

Bilastine did not induce or inhibit activity of CYP450 isoenzymes in in vitro studies.

#### Elimination

In a mass balance study performed in healthy adult volunteers, after administration of a single dose of 20 mg  $^{14}\text{C}$ -bilastine, almost 95% of the administered dose was recovered in urine (28.3%) and

faeces (66.5%) as unchanged bilastine, confirming that bilastine is not significantly metabolized in humans. The mean elimination half-life calculated in healthy volunteers was 14.5 h.

#### Linearity

Bilastine presents linear pharmacokinetics in the dose range studied (5 to 220 mg), with a low interindividual variability.

#### Renal impairment

The effects of bilastine in patients with renal impairment have been studied in adults.

In a study in subjects with renal impairment the mean ( $\pm$ SD) AUC<sub>0-∞</sub> increased from 737.4 ( $\pm$ 260.8) ngxh/ml in subjects without impairment (GFR: > 80 ml/min/1.73 m<sup>2</sup>) to: 967.4 ( $\pm$ 140.2) ngxh/ml in subjects with mild impairment (GFR: 50-80 ml/min/1.73 m<sup>2</sup>), 1384.2 ( $\pm$ 263.23) ngxh/ml in subjects with moderate impairment (GFR: 30 - <50 ml/min/1.73 m<sup>2</sup>), and 1708.5 ( $\pm$ 699.0) ngxh/ml in subjects with severe impairment (GFR: < 30 ml/min/1.73 m<sup>2</sup>). Mean ( $\pm$ SD) half-life of bilastine was 9.3 h ( $\pm$  2.8) in subjects without impairment, 15.1 h ( $\pm$  7.7) in subjects with mild impairment, 10.5 h ( $\pm$  2.3) in subjects with moderate impairment and 18.4 h ( $\pm$  11.4) in subjects with severe impairment. Urinary excretion of bilastine was essentially complete after 48 -72 h in all subjects. These pharmacokinetic changes are not expected to have a clinically relevant influence on the safety of bilastine, since bilastine plasma levels in patients with renal impairment are still within the safety range of bilastine.

#### Hepatic impairment

There are no pharmacokinetic data in subjects with hepatic impairment. Bilastine is not metabolized in human. Since the results of the renal impairment study indicate renal elimination to be a major contributor in the elimination, biliary excretion is expected to be only marginally involved in the elimination of bilastine. Changes in liver function are not expected to have a clinically relevant influence on bilastine pharmacokinetics.

#### Paediatric population

Pharmacokinetic ~~data analysis~~ in children were performed on data obtained in two a Phase-II pharmacokinetic study studies including from 31-66 children aged 4-2 to 11 years with allergic rhinoconjunctivitis or chronic urticaria, administered once daily with bilastine 10 mg orodispersible tablet. Pharmacokinetic analysis of plasma concentration data showed that the pediatric dose of bilastine 10 mg once daily results in systemic exposure within the range of that seen after a 20 mg dose in adults and adolescents, being the range of AUC values (95%CI) 511.5 to 1450 ng hr/ml for children 2 to 11 years equivalent to that seen after a 20 mg dose in adults and adolescents, being the mean AUC value 1014 ng\*hr/ml for children 6 to 11 years. These results were largely below the safety threshold based on data from 80 mg once daily dose in adults in accordance to the drug safety profile. These results confirmed the choice of bilastine 10 mg p.o. once daily as the appropriate therapeutic dose for the paediatric population in the age range 6-2 to 11 years with a body weight of at least 20-15 kg.

### **5.3. Preclinical safety data**

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

In reproduction toxicity studies, effects of bilastine on the foetus (pre-and post-implantation loss in rats and incomplete ossification of cranial bones, sternbrae and limbs in rabbits) were only observed at maternal toxic doses. The exposure levels at the NOAELs are sufficiently in excess (> 30 folds) to the human exposure at the recommended therapeutic dose.

In a lactation study, bilastine was identified in the milk of nursing rats administered a single oral dose (20 mg/kg). Concentrations of bilastine in milk were about half of those in maternal plasma. The relevance of those results for humans is unknown.

In a fertility study in rats, bilastine administered orally up to 1000 mg/kg/day did not induce any effect on female and male reproductive organs. Mating, fertility and pregnancy indices were not affected.

As seen in a distribution study in rats with determination of drug concentrations by autoradiography, bilastine does not accumulate in the CNS.

## **6. PHARMACEUTICAL PARTICULARS**

### **6.1. List of excipients**

- Mannitol(E421)
- Croscarmellose sodium
- Sodium stearyl fumarate
- Sucralose (E955)
- Red grape flavour (major components: gum arabic, ethyl butyrate, triacetin, methyl anthranilate, ethyl propionate, ethyl acetate, ethanol, d-limonene, ethyl octanoate, ethyl levulinate, benzyl acetate, linalool, vanillin, butyric acid, ethyl decanoate.)

### **6.2. Incompatibilities**

Not applicable.

### **6.3. Shelf life**

5 years

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

Store below 30°C.

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

Bilaxten 10 mg orodispersible tablets are packaged in a OPA/Al/PVC//Al blister.

Each blister contains 10 orodispersible tablets. The blisters are packaged in cardboard boxes.

Pack sizes of 10, 20, 30 or 50 orodispersible tablets.

Not all pack sizes may be marketed.

### **6.6. Special precautions for disposal**

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

## **7. MANUFACTURER**

A.Menarini Manufacturing Logistics and Services S.r.l

Via Campo di Pile

67100 L'Aquila (AQ) Italy

## **8. DATE OF REVISION OF THE TEXT**

19 Jan 2026-5 Sept 2022