

In therapeutic trials, the dropout rate due to adverse events was 1.0% (9/935) with levocetirizine 5 mg and 1.8% (14/771) with placebo.

Clinical therapeutic trials with levocetirizine included 935 subjects exposed to the medicinal product at the recommended dose of 5 mg daily. From this pooling, following incidence of adverse drug reactions were reported at rates of 1% or greater (common: 1/100 to <1/10) under levocetirizine 5 mg or placebo:

Preferred Term (WHOART)	Placebo (n=771)	Levocetirizine 5 mg (n=935)
Headache	25 (3.2 %)	24 (2.6 %)
Somnolence	11 (1.4 %)	49 (5.2 %)
Mouth dry	12 (1.6 %)	24 (2.6 %)
Fatigue	9 (1.2 %)	23 (2.5 %)

Further uncommon incidences of adverse reactions (uncommon: 1/1000, <1/100) like asthenia or abdominal pain were observed.

The incidence of sedating adverse drug reactions such as somnolence, fatigue, and asthenia was altogether more common (8.1%) under levocetirizine 5 mg than under placebo (3.1%).

Pediatric population

In two placebo-controlled studies in pediatric patients aged 6-11 months and aged 1 year to less than 6 years, 159 subjects were exposed to levocetirizine at the dose of 1.25mg daily for 2 weeks and 1.25mg twice daily respectively. The following incidence of adverse drug reactions was reported at rates of 1% or greater under levocetirizine or placebo.

System Organ Class and Preferred Term	Placebo (n=83)	Levocetirizine (n=159)
Gastrointestinal disorder		
Diarrhoea	0	3(1.9%)
Vomiting	1(1.2%)	1(0.6%)
Constipation	0	2(1.3%)
Nervous system disorders		
Somnolence	2(2.4%)	3(1.9%)
Psychiatric disorders		
Sleep disorders	0	2(1.3%)

In children aged 6-12 years double blind placebo-controlled studies were performed where 243 children were exposed to 5mg levocetirizine daily for variable periods ranging from less than 1 week to 13 weeks. The following incidence of adverse drug reactions was reported at rates of 1% or greater under levocetirizine or placebo.

Preferred Term	Placebo (n=240)	Levocetirizine 5 mg (n=243)
Headache	5 (2.1 %)	2(0.5 %)
Somnolence	1 (0.4 %)	7(2.9 %)

Post-marketing experience

Adverse reactions from post-marketing experience are per MedDRA, System Organ Class and per frequency. The frequency is defined as follows:

- very common (1/10);
 - common (1/100 to 1/10);
 - uncommon (1/1,000 to 1/100);
 - rare (1/10,000 to 1/1,000);
 - very rare (1/10,000)
- Not known (cannot be estimated from the available data)

Immune system disorders

Not known: hypersensitivity including anaphylaxis

Metabolism and nutrition disorders

Not known: increased appetite

Psychiatric disorders

Not known: aggression, agitation, hallucination, depression, insomnia, suicidal ideation, nightmare

Nervous system disorders

Not known: convulsion, paraesthesia, dizziness, syncope, tremor, dysgeusia

Ear and labyrinth disorders

Not known: vertigo

Eyes disorders

Not known: visual disturbances, blurred vision, oculogyration

Cardiac disorders

Not known: palpitations, tachycardia

Respiratory, thoracic and mediastinal disorders

Not known: dyspnoea

Gastrointestinal disorders

Not known: nausea, vomiting, diarrhoea

Hepatobiliary disorders

Not known: hepatitis

Renal and urinary disorders

Not known: dysuria, urinary retention

Skin and subcutaneous tissue disorders

Not known: angioneurotic oedema, xed drug eruption, pruritus, rash, urticaria

Musculoskeletal, connective tissues, and bone disorders

Not known: myalgia, arthralgia

General disorders and administration site conditions

Not known: oedema

Investigations

Not known: weight increased, abnormal liver function tests

Description of selected adverse reactions

After levocetirizine discontinuation, pruritus has been reported.

Levocetirizine:

FERTILITY, PREGNANCY AND LACTATION

Pregnancy

There are no or limited amount of data (less than 300 pregnancy outcomes) from the use of levocetirizine in pregnant women. However, for cetirizine, the racemate of levocetirizine, a large amount of data (more than 1000 pregnancy outcomes) on pregnant women indicates no malformative or foetal/neonatal toxicity. Animal studies do not indicate direct or indirect harmful effects with respect to pregnancy, embryonal/foetal development, parturition, or postnatal development (see section 5.3).

The use of Levocetirizine may be considered during pregnancy, if necessary

Breast-feeding

Cetirizine, the racemate of levocetirizine, has been shown to be excreted in human. Therefore, the excretion of levocetirizine in human milk is likely. Adverse reactions associated with levocetirizine may be observed in breastfed infants. Therefore, caution should be exercised when prescribing levocetirizine to lactating women.

Fertility

For levocetirizine no clinical data are available

DRUG INTERACTIONS

Montelukast

In drug-interaction studies, the recommended clinical dose of Montelukast did not have clinically important effects on the pharmacokinetics of the following drugs: theophylline, prednisone, prednisolone, oral contraceptives (ethinyl estradiol/norethindrone 35/1), terfenadine, digoxin and warfarin. The area under the plasma concentration curve (AUC) for Montelukast was decreased approximately 40% in subjects with co-administration of phenobarbital. Since Montelukast is metabolized by CYP 3A4, caution should be exercised, particularly in children, when Montelukast is co-administered with inducers of CYP 3A4, such as phenytoin, phenobarbital and rifampicin. In vitro studies have shown that Montelukast is a potent inhibitor of CYP 2C8. However, data from a clinical drug-drug interaction study involving Montelukast and rosiglitazone (a probe substrate representative of drugs primarily metabolized by CYP 2C8) demonstrated that Montelukast does not inhibit CYP 2C8 in vivo. Therefore, Montelukast is not anticipated to markedly alter the metabolism of drugs metabolized by this enzyme (e.g. paclitaxel, rosiglitazone, and repaglinide).

Levocetirizine

In vitro data indicate that levocetirizine is unlikely to produce pharmacokinetic interactions through inhibition or induction of liver drug-metabolizing enzymes. No in-vivo drug-drug interaction studies have been performed with Levocetirizine. In pharmacokinetic interaction studies performed with racemic cetirizine, cetirizine did not interact with antipyrine, pseudoephedrine, erythromycin, azithromycin, ketoconazole, or cimetidine. A small decrease in the clearance of cetirizine was caused by a 400mg dose of theophylline. Ritonavir increased the plasma AUC, half-life and decreased the clearance 42%, 53% and 29% respectively. The disposition of ritonavir was not altered by administration of cetirizine.

SPECIAL PRECAUTIONS FOR STORAGE:

Store at temperatures not exceeding 30 °C

ADR Reporting Statement:

For suspected adverse drug reaction, report to the FDA: www.fda.gov/ph
Seek medical attention immediately at the first sign of any adverse drug reaction.

DOSAGE FORM AND PACKAGING AVAILABLE:

Film-Coated tablet, Alu/PVC Blister pack x 10's (Box of 100's and 30's).

CAUTION

Foods, Drugs, Devices and Cosmetics Act prohibits dispensing without prescription.

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