Montelukast + Levocetirizine dihydrochloride

STELIX[™] 10 mg/5 mg Film-Coated Tablet

Leukotriene Receptor Antagonist/Antihistamine



NAME OF THE MEDICINAL PRODUCT $Montelukastsodium/Levocetirizine dihydrochloride 10 \, mg/5 \, mg \, film-coated tablet$

FORMULATION Each film-coated tablet

PRODUCT DESCRIPTION:
White coloured, circular, biconvex film-coated tablets plain on both sides.

INDICATIONS:

Montelukast Levocetrizine dihydrochloride film-coated tablets are indicated for chronic allergic conditions like seasonal allergic thinitis, perennial allergic hinitis, thinitis associated with ast man

DOSING AND ADMINISTRATION: Adults

let containing Montelukast 10 mg levocetirizine 5 mg once daily. Or as prescribed by the physician.

Elleriny One table to rotatining Montelukast 10 mg levocetririne S mg once daily, Or as prescribed by the physician. Patients with Renal Impairment In adults and children 12 years of age and older with. Midd freal Impairment (CG 1958 Bm Amh), one tablet containing Montelukast 10mg plus Levocetrizine 2.5mg once daily. Midd freal Impairment (CG 1958 Bm Amh), one tablet containing Montelukast 11mg plus Levocetrizine 2.5mg once daily. Patients with hepatic disease. No dosage adjustments in needed in patients solely with mild to moderate hepatic impairment. Usage is not recommended in patients with severe hepatic impairment.

Children and Adolescents
Children anged 7 - 6 noe fast melt tablet containing 4mg Montekulast and 2.5 mg Levocetricine once daily.
Children anged 5 - 16 noe heavable tablet containing 5mg Montekulast and 5mg Levocetricine once daily.
Children anged 5 - 16 noe tablet containing 10 mg Montekulast and Levocetricine Sing once daily.
Children anged 15 - 10 not tablet containing 10 mg Montekulast and Levocetricine Sing once daily.
Or as prescribed by the physician.

PRIMAMACADO

Montholast

The cyclestif (leukorinees (ITCA, ITDA, and ITFA) are potent inflammatory elocanoids released from various cells including mast cells and essinophils. These important mediators bind to cysteinyl leukotriene receptors. Cysteinyl leukotrienes have been corrective to the pathophysiology of asthms and allergic thinkis. In asthms, leukotriene mediated effects include bench constriction, mucous screedow, vascular permeability, and essinophil recruitment. In allergic finitials, cysteinyl leukotrienes are released from an animal mucosa affer allergic report of entire probability of the cysteinyl leukotriene is been shown to increase nasial animal mucosa affer increased inclinations. International colleges affer int

is rapidly absorbed following oral administration. Mean peak plasma concentration (Cmax) is achieved 3 hours (Tmax) after administration of a 10mg dose in adults in the fisted state. The mean oral bioavailability is 69%. The oral bioavailability and influenced by a standard meal. Safety and efficacy were demonstrated in clinical traits where the 10 mg film-coated tablet was administrated without regard to the timing of food ingestion. Cmax is achieved in 2 hours after administration of the 5mg et in adults in the Safetstate. The mean oral bioavailability 37 Safet and decreased to Safety as standard meal.

Elimination
The plasma cleanarion of Montelukast averages 45 ml/min in healthy adults. Following an oral dose of radio labeled Montelukast, 86% of the radioactivity was recovered in 5-day focal collections and <0.2% was recovered in urine. Coupled with estimates of Montelukast are placed in the second of the radioactivity was recovered in 5-day focal collections and <0.2% was recovered in urine. Coupled with estimates of Montelukast are placed in the second of the radioactivity was recovered in 5-day focal collections and <0.2% was recovered in urine. Coupled with estimates of Montelukast are placed in the second of the radioactivity was recovered in 5-day focal collections and <0.2% was recovered in urine. Coupled with estimates of Montelukast are placed in the second of the radioactivity was recovered in 5-day focal collections and <0.2% was recovered in urine. Coupled with estimates of Montelukast are placed in the second of the radioactivity was recovered in 5-day focal collections and <0.2% was recovered in urine. Coupled with estimates of Montelukast are placed in the second of the radioactivity was recovered in 5-day focal collections and <0.2% was recovered in urine. Coupled with estimates of Montelukast are placed in the second of the radioactivity was recovered in 5-day focal collections and <0.2% was recovered in urine. Coupled with estimates of Montelukast are placed in the second of the second

The plasma clearance of Montesuast averages as nurrymm in resource was a constructed and on the plasma clearance of Montesuast are supported by the plasma clearance of Montesuast are supported by the plasma clearance of Montesuast are supported by the plasma clearance profile and the oral bioavailability of a single 10-mg oral dose of Montesulast are similar in elderly and younger adults. The plasma half-life of Montesulast is slightly longer in the elderly. Due to the Levocetrizine component of Montesulast place are certificated by the plasma contest inches the plasma contest in the p

Lexocutifising dihydrochloride
Absorption
Lexocutifising is rapidly and extensively absorbed following oral administration. Peak plasma concentrations are achieved 0.9 h after dosing. Steady state is achieved after two days. Peak concentrations are 270 ng/ml and 308 ng/ml following a single and a repeated 5m gloss one daily respectively. The extent of absorption is dose-independent and is not altered by food, but the peak concentration is reduced and delayed.

The plans hab fall file in adults it 7.9 ± 1.9 hours. The mean apparent total body clearance is 0.83 m/min/kg. The major route of excretion of Levocetrizine and metabolites is via urine, accounting for a mean of 85.4% of the dose. Excretion via feces accounts for only 12.9% of the dose. Levocetrizine is excreted both by glomerular filtration and active lubular screetion. Elderly 11.00 feets are considered and in accordance dose and administration of 20mg Levocetrizine for 6 days in 9 elderly subjects (74-75 years of age), the total body clearance was approximately 33% lower compared to that in younger adults. The disposition of racemic certificine has been shown to be dependent on renal function rather than age. Therefore, the dosage of Levocetrizine should be adjusted in accordance with renal function in elderly patients.

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Protective With Higher Disparation partners are a second processed in the partner of the partn Levocetricinies in an inly excerted unchranged by the kidney, it is unlikely that the clearance of Levocetricinie is significantly decreased in patients solely with hepatic impairment.
Childrian
In children 6-11 years of age, Cmax and AUC values are about 2-fold greater than normal healthy adults when given the same dose (5mg once daily). Cmax occurred 1.2 hours post dose in children, total body clearance was 30% greater and the elimination half-life
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Acute Asstrima

Montelulosa is no indicated for use in the reversal of bronchospasm in acute asthma attacks, including status asthmaticus. Patients should be advised to have appropriate rescue medication available. Therapy with montelulast can be continued during acute exacerbations of asthma.

Patients who have exacerbations of asthma after exercise should have available for rescue a short-acting inhaled beta 2-agonist.

Concomitant Corticosteroid Use
While the dose of inhaled corticosteroid may be reduced gradually under medical supervision, montelukast should not be abruptly substituted for inhaled or oral corticosteroids.

Easinophilic Conditions
Patients on therapy with montelulast may present with systemic ecoinophilia sometimes presenting with clinical features of vasculitis consistent with Churg-Strauss syndrome, a condition, which is often treated with systemic corticosteroid therapy. These events usually, but not always, have been associated with the reduction of oral corticosteroid therapy. Physicians should be alert to eosinophilia, vasculitic rash, worsening pulmonary symptoms, cardiac complications, and/or neuropathy presenting in their patients. A causal association between, montelulast and these underlying conditions has not been established. Neuropsychrinic furns

Uninary retention
Uninary retention has been reported post-marketing with levocetrictine. Levocetrictine should be used with caution in patients with predisposing factors of urinary retention (e.g. spinal cord lesion, prostatic hyperplas/Linical studies Adults and adolescents above 12 years of age; ia) as levocetrictine may increase the risk of urinary retention. Discontinue, if urinary retention occurs.

OVERDOSAGE: There is no data reported on the overdosage of this combination. However, overdosage has been reported with individual molecules.

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Adults and adulescents above 12 years of age:
In the rape utic studies in women and men aged 12 to 71 years, 15.1% of the patients in the levocebritine 5 mg group had at least one adverse drug reaction compared to 11.3% in the placebo group, 91.6% of these adverse drug reactions were mild to moderate.

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 %)
Fatique	9 (1.2 %)	23 (2.5 %)

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

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 de ned as follows:

very common (1/10);
common (1/100 to (1/10);
uncommon (1/1000 to (1/10);
uncommon (1/1000 to (1/100);
rare(1/10 0.00 to (1/100);
very rare (1/10.000)

Not known (cannot be estimated from the available data)

• Immune system disorders: Not known: hypersensitivity including anaphylaxis

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

Cardiac disorders:
 Not known: palpitations, tachycardia

Respiratory, thoracic and mediastinal disorders:
Not known: dyspnoea

+ Skin and subcutaneous tissue disorders: Not known: angioneurotic oederna, -xed drug eruption, pruritus, rash, urticaria

Breast-feeding
Celtrizine. the recentate of levocetrizine has been shown to be excreted in human. Therefore, the excretion of levocetrizine in human milk is likely. Adverse reactions associated with levocetrizine may be observed in breastfed infants. Therefore, cas should be exercised when prescribing levocetrizine to lactating women.

Fertility
For levocetirizine no clinical data are available

DRUGINTERACTIONS

In drug-interactions studies, the recommended clinical dose of Montelulast did not have clinically important effects on the pharmacokinetics of the following drugs: theophylline, prednisone, prednisolone, oral contraceptives (ethinyl estradiol/norethindove 35/1), terfenadine, digonia and warfarin. The area under the plasma concentration name (AUC) for Montelulast was decreased approximately 40/16 in subjects with no-administration of phenobarbilat Since Montelulast is metabolized by CPP 24A. Caution 3 moduli be exercised, perioritary in children with Montelulast as condiminated with induces of CPP 34A. Decreased in the properties of CPP 34A. Decreased in the CPP 34A. Decrease

In vitro data indicate that levocetrizine is unikely to produce pharmacolinetic interactions through inhibition or induction of liver drug-metabolizing enzymes. No in-vivo drug-drug interaction studies have been performed with Levocetrizine in pharmacolinetic interaction studies performed with accent central macent central macent in a contraction of the contraction of the

DOSAGE FORM AND PACKAGING AVAILABLE: Film-Coated tablet, Alu/PVC Blister pack x 10's (Box of 100's and 30's).

Manufactured by:
Bafna Pharmaceuticals Limited No. 147 Madhavaram, Red Hills Road, Grantlyon Village, Vadakarai, Chennai, Tamil Nadu, IN 600052, India



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