## MONTIKA® Tablets / Sachets

(Montelukast Sodium)

## WARNING: SERIOUS NEUROPSYCHIATRIC EVENTS

Serious neuropsychiatric (NP) events have been reported with the use of control target solution. The prese of events reported were highly variable, and included, but were not limited to, agiration, aggression, depression, sleep disturbances, suicidal thoughts and behavior (including suicide). The mechanisms underlying NP events associated with montellukast sodium use are currently not well understood. Due to the risk of NP events, the benefits of montellukast sodium may not outweigh the risks in some patients, particularly when the symptoms of disease may be mild and adequalely treated with alternative therapies. Reserve use of montellukast sodium for patients with allergic rinitis with have an inadequale response or intolerance to alternative therapies. In patients with asthma or exercise-induced bronchoconstriction, consider the benefits and risks before prescribing montellukast sodium. Discuss the benefits of montellukast sodium for admiss in behavior are observed, or if new INP symptoms or suicidal thoughts and/or behavior accur, advise patients to discontinue montellukast sodium and contact a healthcare provider immediately.

## QUALITATIVE & QUANTITATIVE COMPOSITION

170mm

M@NTIKA<sup>®</sup> 4mg Chewable Tablets M@NTIKA<sup>®</sup> 5mg Chewable Tablets M@NTIKA<sup>®</sup> 10mg Film Coated Tablets M@NTIKA<sup>®</sup> 4mg Sachets 

PHARMACEUTICAL FORM: Tablet, Sachet

CLINICAL PARTICULARS: THERAPEUTIC INDICATIONS: • Asthma: M®NTIKA® is indicated for the prophylaxis and chronic treatment of asthma in adults and paediatric patients 12 months of age and older. • Exercise-Induced Bronchoconstriction (EIB): M®NTIKA® is indicated for prevention of exercise-induced bronchoconstriction (EIB) in patients 6 years of age and older. • Allergic Rhinitis: M®NTIKA® is indicated for the relief of symptoms of easonal allergic rhinitis in patients 2 years of age and older and perennial allergic rhinitis in patients 6 months of age and older. Beause the benefits may not putweigh the risk of neuropsychiatric symptoms in patients with allergic rhinitis, reserve use for patients who have an inadequate response or intolerance to alternative therapits.

alternative therapies. POSOLOGY AND METHOD OF ADMINISTRATION: General Recommendations: The therapeutic effect of MONTIKA® on parameters of asthma control occurs within one day. Patients should be advised to continue taking MONTIKA® even if their asthma is under control, as well as during periods of worsening asthma. No dosage adjustment is necessary for patients with renal insufficiency, or mild to moderate hepatic impairment. There are no data on patients with severe hepatic mpairment. The dosage is the same for both male and female patients. Posology: MONTIKA® is to be given to a child under adult supervision. For children who have problems consuming a chewable tablet, a sachet formulation is available. Asthma: MONTIKA would be taken once daily in the evening. The following bees are recommended. ● For paediatric patients to 15 years of age and doler: one 10mg tablet. ● For paediatric patients for 14 years of age: one 5 mg chewable tablet. ● For paediatric patients to 15 years of age: one 4 mg chewable tablet or one packet of 4 mg oral sachet. Port paediatric patients the one as the integration of the same and enter patient inte and should be taken once daily in the evening. The following chewable tablet. ● For paediatric patients to 15 years of age: one 4 mg chewable tablet or one packet of 4 mg oral sachet. Port paediatric patients the sach at 12 months of age with asthma have not been established. Patients who miss a dose should take the next dose at their regular time and should not take 2 doses at thes area time. There have been no clinical triats in patients with asthma to evaluate the relative efficacy of morning versus evening dosing. The pharmacokinetics of montelukast are similar whethere dosed in the morning or evening.

There have been no clinical trials in patients with asthma to evaluate the relative efficacy of morning viersus evening dosing. The pharmacokinetics of montelukast are similar whether dosed in the moning or evening. Efficacy has been demonstrated for asthma when montelukast was administered in the evening without regard to time of food ingestion. Exercise-Induced Bronchoconstriction (EIB): For prevention of EIB, a single dose of M@NTIKA<sup>®</sup> should be taken at least 2 hours before exercise. The following doses are recommended: • For adults and adolescents 15 years of age and older: one 10mg tablet. • For paediatric patients 6 to 14 years of age content of a single dose of M@NTIKA<sup>®</sup> should be taken at least 2 hours before exercise. The following doses are recommended: • For adults and adolescents 15 years of age and older: one 10mg tablet. • For paediatric patients 6 to 14 years of age content of additional dose of M@NTIKA<sup>®</sup> should not be taken within 24 hours of a previous dose. Patients already taking M@NTIKA<sup>®</sup> daily for another indication (including chronic asthma) should not take an additional dose to prevent EIB. All patients should have available for rescue a short-acting 6 years of age have not heen established. Daily administration of M@NTIKA<sup>®</sup> (or the chronic treatment of asthma)

nave available for rescue a short-acting L-agonist. Safety and efficacy in patients younger than 6 years of age have not been established. Daily administration of M@NTIKA® for the chronic treatment of asthma has not been established to prevent acute episodes of EIB. Allergic Rhinitis: For allergic rhinitis, M@NTIKA® should be taken once daily. Efficacy was demonstrated for seasonal allergic rhinitis when montelukast was

administered in the morning or the evening without regard to time of food ingestion. The time of administerion may be individualized to suit patient needs. The following doses for the treatment of symptoms of seasonal allergic minitis are recommended.  $\Phi$  for adults and adolescents 15 years of age and older: one 10 mg failed  $\Phi$  for paediatric patients 6 to 14 years of age: one 5 mg chevable tablet.  $\Phi$  for paediatric patients 2 to 5 years of age: one 4 mg chevable tablet or one failed  $\Phi$  for paediatric patients 6 to 14 years of age: one 5 mg chevable tablet. 4mg oral sache

Img oral sachet. Safely and effectiveness in paediatric patients younger than 2 years of age with seasonal allergic minits have not been established. The following doses for the treatment of symptoms of perennial allergic minits are recommended. For adults and adolescents 15 years of age and older: one 10mg tablet. For paediatric patients 6 to 14 years of age: one 5mg chewable tablet. For adediatric patients 2 to 5 years of age: one 4mg chewable tablet or one 4mg oral sachet. Safely and effectiveness in paediatric patients younger than 6 months of age with perennial allergic thinitis have not been established. Patients who miss a dose should take the next dose at their regular time and should not take 2 doses at the same time. Sately and effectiveness in their crunker time and chewid not take 2 doses at the same time. Sately and table table next dose and their crunker time and should not take 2 doses at the same time.

Astima and Allergic Kninitis: ratients with oon astima and allergic minitis should take only one MMONTIKA cose daily in the evening. Fatterins with oon astima and allergic minitis should take only one MMONTIKA cose daily in the evening. Fatterins with oon astima and allergic minitis should take only one MMONTIKA cose daily in the evening. Fatterins with omes as abooth of cold or room temperature soft food. The sachet should not be opened unit ready to use. After opening, the full dose (with or without mixing with baby formula, breast milk, or food) must be administered within 15 minutes. If mixed with baby formula, breast milk, or food, MMONTIKA® sachet must not be stored for durue use. Discard any nunseed portion. MMONTIKA® on sachet are not intended to be dissolved in any liquid donet han baby formula breast milk for administration. However, liquids may be taken subsequent to administration. MMONTIKA® sachet can be administered without regard to the time of meals.

Method of Administration: Oral use.

CONTRAINDICATIONS: Hypersensitivity to the active substance.

CONTRAINDICATIONS: Hypersensitivity to the active substance. SPECIAL WARNINGS AND PRECAUTIONS FOR USE: Neuropsychiatric Events: Serious neuropsychiatric (NP) events have been reported with use of montelukas sodium. These post marketing reports have been highly variable and included, but were not limited to, agitation, aggressive behavior or hostility anxiounses, depression, disorientation, disturbance in attention, dream abnormalities, dysphemia (stuttering), hallucinations, insomnia, irritability, memory impairment, bessesive-compulsive symptoms, restlessness, somambulism, suicidal thoughts and behavior (including suicide), lic, and termor. NP events have been reported in adult, adolescent, and paediatric patients with and without a previous history of psychiatric disorder. NP events have been reported mostly during montelukast sodium reatment, but some were reported after montelukast sodium discontinuation. Based upon the available data, it is difficult to licently risk factors for or quantify the risk of NP events with montelukast sodium use. Due to the risk of NP events, the benefits of montelukast sodium my and adequalely treated with alternative therapies. Reserve use of montelukast sodium for solitability, ments with allow adequalet response or intolerance to alternative therapies. In patients with allergit with alternative therapies in the serve use of montelukast sodium. Consider the benefits and risks before prescribing montelukast sodium. Use with patients and caregivers when prescribing montelukast sodium. Advise patients and/or caregivers to be alert for changes in behavior or for new NP symptoms when taking montelukast sodium. If changes in behavior are observed, or if new NP symptoms or suicida



thoughts and/or behavior occur, advise patients to discontinue montelukast sodium and contact a healthcare provider immediately. In many cases, symptoms resolved Houghts and/or behavior occur, advise patients to discontinue montelukast sodium and contact a healthcare provide immediately. In many cases, symptoms resolved after stopping montelukast sodium. Therefore, continue to monitor and provide supportive care until symptoms resolve. Re-evaluate the benefits and risks of restarting treatment with montelukast sodium. Therefore, continue to monitor and provide supportive care until symptoms resolve. Re-evaluate the benefits and risks of restarting treatment with montelukast sodium. Therefore, continues should be advised to have appropriate rescue medication available. Therapy with montelukast sodium that adxis, including status asthmaticus. Patients should be advised to have appropriate rescue medication available. Therapy with montelukast sodium can be continued 6-agonist. Concomitant Controsteriod Use: White the dose of have exacentations of asthma atter exercise schould have available for rescue a soft-acting inhaled 6-agonist. Concomitant Controsteriod Use: White the dose of have exacentations. Patients with known asprin sensitivity should continue avoidance of asprin or non-sterotical anti-inflammatory agents while taking montelukary soft montelukast sodium may present with systemic conticosteroid therapy. These events have been soften sensitivity: Patients with known asprin sensitivity should continue avoidance of the spinient conticosteroid therapy. These events have been soften sensitis consistent with Churg-Strauss syntrome, a condition which is often treated with systemic coticosteroid therapy. These events have been sometimes associated with the reduction of oral controsteroid therapy. Physicians should be alter to ecosinophila, sometime patients have been sometimes associated with the reduction of oral contosteroid therapy. Physicians should be alter to ecosinophila, sometime patients have been sometimes associated with the reduction of and contosteroid therapy. Physicians should be alter to ecosinophila, association between unontelukast sodium a

NTERACTION WITH OTHER MEDICINAL PRODUCTS AND OTHER FORMS OF INTERACTION: No dose adjustment is needed when montelukast sodium co-administered with theophylline, prednisone, prednisolone, oral contractives, thereadine, digositi, wardani, gemtilorozi, fitraconazole, thyroid hormones, sedative hypotics, non-steroidal anti-inflammatory agents, benzodiazepines, tecongestants, and Cytochrome P450 (CYP) enzyme inducers.

PREGNANCY AND LACTATION: Pregnancy: Animal studies do not indicate harmful effects with respect to effects on pregnancy or embryonal/fetal development. Limited data from available pregnancy databases do not suggest a causal relationship between montelukast and matformations (i.e. limb defects) that have been rarely eported in worldwide post marketing experience. Wontelukast may be used during pregnancy only if it is considered to be clearly essential. Breastfeeding: It is unknown whether montelukast/metabolites are is excreted in human milk. Montelukast may be used in breast-feeding mothers only if it is considered to be clearly executive. sential

EFFECTS ON ABILITY TO DRIVE AND USE MACHINES: Montelukast has no or negligible influence on the ability to drive and use machines, however individual

have reported drowsiness or dizziness. UNDESIRABLE EFFECTS: Post Marketing Experience: The following adverse reactions have been identified during post-approval use of Montelukast sodium, Since these reactions are 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. Blood and lymphatic system disorders: Increased bleeding tendency, thrombocytopenia. Immune system disorders: hypersensitivity reactions including anaphylaxis, hepatic esonsphulic infiltation. Psychiatric disorders: Increased bleeding tendency, thrombocytopenia. Immune system disorders: hypersensitivity reactions including anaphylaxis, hepatic esonsphulic infiltation. Psychiatric disorders: Including, but not limited to, agitation, aggressive behavior or nostility, anviousness, depression, disordentation, disturbance in attention, dream abnormatiles, dysphernia (cluding but not termor. Nervous system disorders: Drowsiness, paresthesiad/hypoesthesia, seizures. Cardiac disorders: Palpitations. Respiratory, thoracic and mediastinal disorders: Disorders: Angioedema, brusing, erythema molisorders: Cases of cholestatic hepatitis, hepatoolillar dy laws been reported in patients treated with montelukast sodium. Most of these ocurred in combination with other confounding factors, such as use of other medications, or when montelukast sodium as administered to patients who have dunderlying potential for liver disease such as alcohol use or other toxic epiderma lencrolysis, uricara. Musculoseletal and connective tissue disorders: Edema. Patients with asthma on therapy with montelukast sodium may disorders: Enuresis in children. General disorders and administration site conditions: Edema. Patients with asthma on therapy with montelukast sodium may visystemic conflounding, sometimes presenting with dirical features of vasculitis consists soyndome, a donten treated with systemic conflounding, sometimes resenting with dirical features

OVERDOSE: No specific information is available on the treatment of over dosage with montelukast sodium. In the event of overdose, it is reasonable to employ the usual supportive measures; e.g., remove unabsorbed material from the gastrointestinal tract, employ clinical monitoring, and institute supportive therapy, if required

PHARMACOLOGICAL PROPERTIES Montelukast sodium, the active ingredient in M@NTIKA<sup>®</sup>, is a selective and orally active leukotriene receptor antagonist that inhibits the cysteinyl leukotrier Montelukast so CysLT1 recepto

THERAPEUTIC CLASSIFICATION & ATC CODES: Pharmacotherapeutic group: Leukotriene receptor antagonist. ATC Code: RO3D CO3

MECHANISM OF ACTION: The cysteinyl leukotrienes (LTC4, LTD4, LTE4) are potent inflammatory eicosanoids released from various cells including mast cells and eosinophils. These important pro-astimatic mediators bind to cysteinyl leukotriene receptors (CysLT) found in the human airway and cause airway actions, including pronchoconstriction, muccus serviction, vascular permeability, and eosinophil recruitment.

PHARMACODYNAMIC PROPERTIES: Monetule performance in the compound which binds with high affinity and selectivity to the CysLTi receptor. In clinical studies montelukast inhibits bronchoconstriction due to inhaled LTD4 at doses as low as 5mg. Bronchodilation effect caused by a 6-agonist was additive to that caused by montelukast. Treatment with montelukast inhibits bronchoconstriction due to inhaled LTD4 at doses as low as 5mg. Bronchodilation effect caused by a 6-agonist was additive to that caused by montelukast. Treatment with montelukast inhibits bonchoconstriction due to antigen challenge. Montelukast, compared with placebo, decreased peripheral blood escinophilis in adult and paediatinc patients. In a separate study, treatme with montelukast significantly decreased escinophils in the airways (as measured in sputum) and in peripheral blood while improving clinical asthma control of the airways (as measured in sputum) and in peripheral blood while improving clinical asthma control of the airways (as measured in sputum) and in peripheral blood while improving clinical asthma control of the airways (as measured in sputum) and in peripheral blood while improving clinical asthma control of the airways (as measured in sputum) and in peripheral blood while improving clinical asthma control of the airways (as measured in sputum) and in peripheral blood while improving clinical asthma control of the airways (as measured in sputum) and in peripheral blood while improving clinical asthma control of the airways (as measured in sputum) and in peripheral blood while improving clinical asthma control of the airways (as measured in sputum) and in peripheral blood while improving clinical asthma control of the airways (as measured in sputum) and in peripheral blood while improving clinical asthma control of the airways (as measured in sputum) and in peripheral blood while improving clinical asthma control of the airways (as measured in sputum) and the peripheral blood while improving clinical asthma control of the airways (a

with montelukast significantly decreased eosinophis in the airways (as measured in sputum) and in perpineral blood while improving clinical astima control. PHARMACCMENTIC PROPERTIES: Absorption: Montelukast is rapidly absorbed following oral administration. After administration of the 10mg film coated tablet to fasted adults, the mean peak montelukast plasma concentration (Crws) is achieved in 3 to 4 hours (Trws). The mean oral bioavailability is 73% in the fasted state versus 63% when administrated with a standard meal in the moning. For the 5mg chewable tablet, the mean Crws is achieved in 2 to 2.5 hours after administration to adults in the fasted state. The mean oral bioavailability is 73% in the fasted state versus 63% when administered with a standard meal in the moning. For the 4mg chewable tablet, the mean Crws is achieved 2 hours after administration in pediatic patients 2 to 5 years of age in the fasted state. The 4mg oral granule formulation is bioequivalent to the 4mg chewable tablet when administered to adults in the fasted state. Distribution: Montelukast is mere than 95% bound to plasma proteins. The steady state volume of distribution of montelukast are undetectable at steady state in adults and pediatric patients. In vitro studies using fluman liver microsomes indicate that CYP3A4, 2C8, and 2C9 are involved in the metabolism of montelukast. At clinically relevant concentrations, 2C8 appears to play a major role in the metabolism of montelukast, 8% of the radioactivity was recovered in 5-day ficeal collections and <0.2% was recovered in unne. Coupled with estimates to addisat one indicate and pediatric sciences in addisate of addisate are excerted administer excercises in addisate in a line and the states is addisated in a pediatribution of montelukast related the addition and <0.2% was recovered in unne. Coupled with estimates of montelukast or a pioavailability, the ideatry or mild to moderate hepatic insufficiency. Studies in patients with renal impairment have not been undertaken.

SHELF LIFE: See expiry on the pack.

170mm

AVAILABILITY MONTIKA<sup>®</sup> 4mg chewable tablets in a pack of 14's M®NTIKA<sup>®</sup> 5mg chewable tablets in a pack of 14's M®NTIKA<sup>®</sup> 10mg film coated tablets in a pack of 14's M®NTIKA<sup>®</sup> 4mg sachets in a pack of 14's INSTRUCTIONS: Dosage: As advised by the physician. To be sold on the prescription

of registered medical practitioner. Keep out of reach of children. Avoid exposure to heat, light and humidity. Store between 15 to 30°C. Improper storage may deteriorate the medicine.

Manufactured by: SAMI Pharmaceuticals (Pvt.) Ltd. F-95, S.I.T.E., Karachi-Pakistan www.samipharmapk.com Mfg. Lic. No. 000072 200000544

موننثيكا ليبك/ساڭ (مونی لوکاسٹ سوڈیم)

فوراک: ڈاکٹر کی ہدایت کے مطابق استعال کریں۔ مرف رجٹر ڈ ڈاکٹر کے نسخ کے مطابق فروخت کریں۔ بچوں کی پہنچ سے دوررکھیں ۔ ب کے بی کو است کی است کی در دواکودهوب ،گرمی اور نمی سے تحفظ ۵۵ اے•۳ ڈگر کی سینٹی گریڈ کے درمیان میں رکھیں ورنہ دواخراب ہوجا نیگی۔

R N-10/NA/03/2022

115mm