Moxen Tablets

Meloxicam

1. Name of the medicinal product: Moxen 7.5 mg,Moxen 15 mg

2. Qualitative and quantitative composition:

Moxen 7.5 mg Tablets - Each tablet contains 7.5 mg of Meloxicam.Moxen 15 mg Tablets - Each tablet contains 15 mg of Meloxicam.For the full list of excipients, see section 6.1.

3. Pharmaceutical form: Tablets

4. Clinical particulars: 4.1 Therapeutic indications:- Short-term symptomatic treatment of exacerbations of osteoarthrosis.
- Long-term symptomatic treatment of rheumatoid arthritis or ankylosing spondylitis.

4.2 Posology and method of administration:Oral use:The total daily amount should be taken as a single dose, with water or another liquid, during a meal.Undesirable effects may be minimised by using the lowest effective dose for the shortest duration necessary to control symptoms (see section 4.4). The patient's need for symptomatic relief and response to therapy should be re-evaluated periodically, especially in patients with osteoarthritis.

- Exacerbations of osteoarthritis: 7.5 mg/day If necessary, in the absence of improvement, the dose may be increased to 15 mg/day
- Rheumatoid arthritis, ankylosing spondylitis: 15 mg/day .(see also section 'Special populations' below)

According to the therapeutic response, the dose may be reduced to 7.5 mg/day.DO NOT EXCEED THE DOSE OF 15 MG/DAY.

Special populations:Elderly patients and patients with increased risks for adverse reaction (see section 5.2):The recommended dose for long term treatment of rheumatoid arthritis and ankylosing spondylitis in elderly patients is 7.5 mg per day. Patients with increased risks for adverse reactions should start treatment with 7.5 mg per day (see section 4.4).Renal impairment (see section 5.2):In dialysis patients with severe renal failure, the dose should not exceed 7.5 mg per day.No dose reduction is required in patients with mild to moderate renal impairment (i.e. patients with a creatinine clearance of greater than 25 ml/min). (For patients with non-dialysed severe renal failure, see section 4.3) Hepatic impairment (see section 5.2):No dose reduction is required in patients with mild to moderate hepatic impairment (For patients with severely impaired liver function, see section 4.3).

Children and adolescents: Moxen 15 mg tablets is contraindicated in children and adolescents aged under 16 years (see section 4.3).

4.3 Contraindications:This medicinal product is contra-indicated in the following situations:

- third trimester of pregnancy (see section 4.6 'Fertility, pregnancy and lactation').- children and adolescents aged under 16 years.- Hypersensitivity to meloxicam or to any of the excipients listed in section 6.1 or hypersensitivity to substances with a similar action, e.g. NSAIDs, aspirin. Meloxicam should not be given to patients who have developed signs of asthma, nasal polyps, angioneurotic edema or urticaria following the administration of aspirin or other NSAIDs.- history of gastrointestinal bleeding or perforation, related to previous NSAIDs therapy.- active, or history of recurrent gastro-intestinal ulcer/haemorrhage (two or more distinct episodes of proven ulceration or bleeding).- severely impaired liver function,- non-dialysed severe renal failure,- gastrointestinal bleeding, history of cerebrovascular bleeding or other bleeding disorders.- severe heart failure.

4.4 Special warnings and precautions for use:Undesirable effects may be minimized by using the lowest effective dose for the shortest duration necessary to control symptoms (see section 4.2, and GI and cardiovascular risks below).The recommended maximum daily dose should not be exceeded in case of insufficient therapeutic effect, nor should an additional NSAID be added to the therapy because this may increase the toxicity while therapeutic advantage has not been proven. The use of meloxicam with concomitant NSAIDs including cyclooxygenase-2 selective inhibitors should be avoided.

Meloxicam is not appropriate for the treatment of patients requiring relief from acute pain.

In the absence of improvement after several days, the clinical benefit of the treatment should be reassessed.Any history of oesophagitis, gastritis and/or peptic ulcer must be sought in order to ensure their total cure before starting treatment with meloxicam. Attention should routinely be paid to the possible onset of a recurrence in patients treated with meloxicam and with a past history of this type.

Gastrointestinal effects:NSAIDs cause an increased risk of serious gastrointestinal adverse events including inflammation, bleeding ,ulceration and perforation of the stomach or intestines,which can be fatal ,This event can occur at any time during use and without warning symptoms. elderly patient are at greater risk for serious gastrointestinal events.The risk of GI bleeding, ulceration or perforation is higher with increasing NSAID doses, in patients with a history of ulcer, particularly if complicated with haemorrhage or perforation (see section 4.3), and in the elderly. These patients should commence treatment on the lowest dose available. Combination therapy with protective agents (e.g. misoprostol or proton pump inhibitors) should be considered for these patients, and also for patients requiring concomitant low dose aspirin, or other drugs likely to increase gastrointestinal risk (see below and 4.5).Patients with a history of GI toxicity, particularly when elderly, should report any unusual abdominal symptoms (especially GI bleeding) particularly in the initial stages of treatment.Caution is advised in patients receiving concomitant medications which could increase the risk of ulceration or bleeding, such as heparin as curative treatment or given in geriatrics, anticoagulants such as warfarin or other non steroidal anti-inflammatory drugs, including acetylsalicylic acid given at anti-inflammatory doses(≥ 1g as single intake or ≥ 3g as total daily amount), (see section 4.5).

When GI bleeding or ulceration occurs in patients receiving meloxicam, the treatment should be withdrawn.

NSAIDs should be given with care to patients with a history of gastrointestinal disease (ulcerative colitis, Crohn's disease) as these conditions may be exacerbated (see section 4.8 - undesirable effects).

Cardiovascular and cerebrovascular effects:NSAIDs may cause an increased risk of serious cardiovascular thrombotic events myocardial infarction, and stroke, which can be fatal. This risk may increase with duration of use. Patients with cardiovascular disease or risk factors for cardiovascular disease may be at greater risk. NSAIDs is contraindicated for treatment of pre-operative pain in the setting of coronary artery bypass graft (CABG) surgery.Appropriate monitoring and advice are required for patients with a history of hypertension and/or mild to moderate congestive heart failure as fluid retention and oedema have been reported in association with NSAID therapy.Clinical monitoring of blood pressure for patients at risk is recommended at baseline and especially during treatment initiation with meloxicam.

Clinical trial and epidemiological data suggest that use of some NSAIDs including meloxicam (particularly at high doses and in long term treatment) may be associated with a small increased risk of arterial thrombotic events (for example myocardial infarction or stroke). There are insufficient data to exclude such a risk for meloxicam.Patients with uncontrolled hypertension, congestive heart failure, established ischaemic heart disease, peripheral arterial disease, and/or cerebrovascular disease should only be treated with meloxicam after careful consideration. Similar consideration should be made before initiating longer-term treatment of patients with risk factors for cardiovascular disease (e.g. hypertension, hyperlipidaemia, diabetes mellitus, smoking).

Skin reactions:Serious skin reactions, some of them fatal, including exfoliative dermatitis, Stevens–Johnson syndrome and toxic epidermal necrolysis, have been reported very rarely in association with the use of NSAIDs (see 4.8). Patients appear to be at highest risk of these reactions early in the course of therapy, the onset of the reaction occurring in the majority of cases within the first month of treatment. Meloxicam should be discontinued at the first appearance of skin rash mucosal lesions, or any other sign of hypersensitivity.

Parameters of liver and renal function: As with most NSAIDs, occasional increases in serum transaminase levels, increases in serum bilirubin or other liver function parameters, as well as increases in serum creatinine and blood urea nitrogen and other laboratory disturbances, have been reported. The majority of these instances involved transitory and slight abnormalities. Should any such abnormality prove significant or persistent, the administration of Meloxicam should be stopped and appropriate investigations undertaken.

Functional renal failure:NSAIDs, by inhibiting the vasodilating effect of renal prostaglandins, may induce a functional renal failure by reduction of glomerular filtration. This adverse event is dose-dependant. At the beginning of the treatment, or after dose increase, careful monitoring of diuresis and renal function is recommended in patients with the following risk factors:• Elderly • Concomitant treatments such as ACE inhibitors, angiotensin-II antagonists, sartans, diuretics (see section 4.5. Interaction with other medicinal products and other forms of interaction)• Hypovolemia (whatever the cause)• Congestive heart failure• Renal failure• Nephrotic syndrome• Lupus nephropathy• Severe hepatic dysfunction (serum albumin <25 g/l or Child-Pugh score ≥10) In rare instance NSAIDs may be the cause of interstitial nephritis, glomerulonephritis, renal medullary necrosis or nephrotic syndrome.The dose of meloxicam in patients with end-stage renal failure on haemodialysis should not be higher than 7.5 mg. No dose reduction is required in patients with mild or moderate renal impairment (i.e. in patients with a creatinine clearance of greater than 25 ml/min).

Sodium, potassium and water retention:Induction of sodium, potassium and water retention and interference with the natriuretic effects of diuretics may occur with NSAIDs. Furthermore, a decrease of the antihypertensive effect of antihypertensive drugs can occur (see section 4.5). Consequently, oedema, cardiac failure or hypertension may be precipitated or exacerbated in susceptible patients as a result. Clinical monitoring is therefore necessary for patients at risk (see sections 4.2 and 4.3).

Hyperkalaemia:Hyperkalaemia can be favoured by diabetes or concomitant treatment known to increase kalaemia (see section 4.5). Regular monitoring of potassium values should be performed in such cases.

Other warnings and precautions:Adverse reactions are often less well tolerated in elderly, fragile or weakened individuals, who therefore require careful monitoring. As with other NSAIDs, particular caution is required in the elderly, in whom renal, hepatic and cardiac functions are frequently impaired. The elderly have an increased frequency of adverse reactions to NSAIDs especially gastrointestinal bleeding and perforation which may be fatal (see section 4.2).Meloxicam, as any other NSAID may mask symptoms of an underlying infectious disease.The use of meloxicam may impair female fertility and is not recommended in women attempting to conceive. In women who have difficulties conceiving or who are undergoing investigation of infertility, withdrawal of meloxicam should be considered (see section 4.6).

Moxen tablets contain lactose. Patients with rare hereditary problems of galactose intolerance, the Lapp-lactase deficiency or glucose-galactose malabsorption should not take this medicine.

4.5 Interaction with other medicinal products and other forms of interaction,Interaction studies have only been performed in adults.

Pharmacodynamic Interactions:Other non steroidal anti-inflammatory drugs (NSAIDs) and acetylsalicylic acid ≥ 3g/d:combination (see section 4.4) with other non steroidal anti-inflammatory drugs, including acetylsalicylic acid given at anti-inflammatory doses (≥ 1g as single intake or ≥ 3g as total daily amount) is not recommended.

Corticosteroids (e.g. Glucocorticoids):The concomitant use with corticosteroids requests caution because of an increased risk of bleeding or gastrointestinal ulceration.

Anticoagulant or heparin Administered in geriatrics or at curative doses: Considerably increased risk of bleeding, via inhibition of platelet function and damage to the gastroduodenal mucosa. NSAIDs may enhance the effects of anti-coagulants, such as warfarin (see section 4.4). The concomitant use of NSAIDs and anticoagulants or heparin administered in geriatrics or at curative dose is not recommended (see section 4.4).

In remaining cases of heparin use caution is necessary due to an increased bleeding risk.

Careful monitoring of the INR is required if it proves impossible to avoid such combination.

Thrombolytics and antiplatelet drugs:Increased risk of bleeding, via inhibition of platelet function and damage to the gastroduodenal mucosa.

Selective serotonin reuptake inhibitors (SSRIs):Increased risk of gastrointestinal bleeding.

Diuretics, ACE inhibitors and Angiotensin-II Antagonists:NSAIDs may reduce the effect of diuretics and other antihypertensive drugs. In some patients with compromised renal function (e.g. dehydrated patients or elderly patients with compromised renal function) the co-administration of an ACE inhibitor or Angiotensin-II antagonists and agents that inhibit cyclo-oxygenase may result in further deterioration of renal function, including possible acute renal failure, which is usually reversible. Therefore, the combination should be administered with caution, especially in the elderly. Patients should be adequately hydrated and consideration should be given to monitoring of renal function after initiation of concomitant therapy, and periodically thereafter (see also section 4.4).Other antihypertensive drugs (e.g. Beta-blockers):As for the latter, a decrease of the antihypertensive effect of beta-blockers due to inhibition of prostaglandins with vasodilatory effect can occur.Calcineurin inhibitors (e.g. cyclosporin, tacrolimus):Nephrotoxicity of calcineurin inhibitors may be enhanced by NSAIDs via renal prostaglandin mediated effects. During combined treatment renal function is to be measured. A careful monitoring of the renal function is recommended, especially in the elderly.Intrauterine devices:NSAIDs have reported to decrease the efficacy of intrauterine devices.A decrease of the efficacy of intrauterine devices by NSAIDs has been previously reported but needs further confirmation.

Pharmacokinetic Interactions: Effect of meloxicam on the pharmacokinetics of other drugs

Lithium:NSAIDs have been reported to increase blood lithium levels (via decreased renal excretion of lithium), which may reach toxic values. The concomitant use of lithium and NSAIDs is not recommended (see section 4.4). If this combination appears necessary, lithium plasma concentrations should be monitored carefully during the initiation, adjustment and withdrawal of meloxicam treatment.

Methotrexate:NSAIDs can reduce the tubular secretion of methotrexate thereby increasing the plasma concentrations of methotrexate. For this reason, for patients on high dosages of methotrexate (more than 15 mg/week) the concomitant use of NSAIDs is not recommended (see section 4.4).

The risk of an interaction between NSAID preparations and methotrexate, should be considered also in patients on low dosage of methotrexate, especially in patients with impaired renal function. In case combination treatment is necessary blood cell count and the renal function should be monitored. Caution should be taken in case both NSAID and methotrexate are given within 3 days, in which case the plasma level of methotrexate may increase and cause increased toxicity.

Although the pharmacokinetics of methotrexate (15mg/week) were not relevantly affected by concomitant meloxicam treatment, it should be considered that the haematological toxicity of methotrexate can be amplified by treatment with NSAID drugs (see above). (See section 4.8)

Pharmacokinetic Interactions: Effect of other drugs on the pharmacokinetics of meloxicam

Cholestyramine:Cholestyramine accelerates the elimination of Meloxicam by interrupting the enterohepatic circulation so that clearance for meloxicam increases by 50% and the half-life decreases to $13_{\pm}3$ hrs. This interaction is of clinical significance.No clinically relevant pharmacokinetic drug-drug interactions were detected with respect to the concomitant administration of antacids, cimetidine and digoxin.

4.6 Fertility, pregnancy and lactation:Fertility:The use of meloxicam, as with any drug known to inhibit cyclooxygenase/prostaglandin synthesis, may impair female fertility and is not recommended in women attempting to conceive. In women who have difficulties conceiving or who are undergoing investigation of infertility, withdrawal of meloxicam should be considered.

Pregnancy:Inhibition of prostaglandin synthesis may adversely affect the pregnancy and/or the embryo/foetal development. Data from epidemiological studies suggest an increased risk of miscarriage and of cardiac malformation and gastroschisis after use of a prostaglandin synthesis inhibitor in early pregnancy. The absolute risk for cardiovascular malformation was increased from less than 1%, up to approximately 1.5 %. The risk is believed to increase with dose and duration of therapy. In animals, administration of a prostaglandin synthesis inhibitor has been shown to result in increased pre- and post-implantation loss and embryo-foetal lethality. In addition, increased incidences of various malformations, including cardiovascular, have been reported in animals given a prostaglandin synthesis inhibitor during the organogenetic period.

During the first and second trimester of pregnancy, meloxicam should not be given unless clearly necessary. If meloxicam is used by a woman attempting to conceive, or during the first and second trimester of pregnancy, the dose should be kept as low and duration of treatment as short as possible.During the third trimester of pregnancy, all prostaglandin synthesis inhibitors may expose the foetus to:

- cardiopulmonary toxicity (with premature closure of the ductus arteriosus and pulmonary hypertension);- renal dysfunction, which may progress to renal failure with oligo-hydroamniosis;- the mother and the neonate, at the end of pregnancy, to- possible prolongation of bleeding time, an anti-aggregating effect which may occur even at very low doses;- inhibition of uterine contractions resulting in delayed or prolonged labour.Consequently, meloxicam is contraindicated during the third trimester of pregnancy.

Lactation:While no specific experience exists for meloxicam, NSAIDs are known to pass into mother's milk. Administration therefore is not recommended in women who are breastfeeding.

4.7 Effects on ability to drive and use machines:No specific studies on the effect on the ability to drive and use machineries have been performed. However, on the basis of the pharmacodynamic profile and reported adverse drug reactions, meloxicam is likely to have no or negligible influence on these abilities. However, when visual disturbances including blurred vision, dizziness, drowsiness, vertigo or other central nervous system disturbances occur, it is advisable to refrain from driving and operating machinery.

4.8 Undesirable effects:a) General Description:Clinical trial and epidemiological data suggest that use of some NSAIDs (particularly at high doses and in long term treatment) may be associated with a small increased risk of arterial thrombotic events (for example myocardial infarction or stroke) (see section 4.4).Oedema, hypertension, and cardiac failure, have been reported in association with NSAID treatment.The most commonly-observed adverse events are gastrointestinal in nature. Peptic ulcers, perforation or GI bleeding, sometimes fatal, particularly in the elderly, may occur (see section 4.4). Nausea, vomiting, diarrhoea, flatulence, constipation, dyspepsia, abdominal pain, melaena, haematemesis, ulcerative stomatitis, exacerbation of colitis and Crohn's disease (see section 4.4 - Special warnings and precautions for use) have been reported following administration. Less frequently, gastritis has been observed.

Adverse drug reactions that have come to light as a result of reports received in relation to administration of the marketed Meloxicam products are included.

Adverse reactions have been ranked under headings of frequency using the following convention:

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)

b) Table of adverse reactions

Blood and lymphatic system disorders:Uncommon: Anaemia,Rare: Blood count abnormal (including differential white cell count), leukopenia, thrombocytopenia,Very rare cases of agranulocytosis have been reported (see section c).

Immune system disorders:Uncommon: Allergic reactions other than anaphylactic or anaphylactoid reactions,Not known: Anaphylactic reaction, anaphylactoid reaction.

Psychiatric disorders:Rare: Mood altered, nightmares,Not known: Confusional state, disorientation

Nervous system disorders:Common: Headache,Uncommon: Dizziness, somnolence.

Eye disorders:Rare: Visual disturbance including vision blurred, conjunctivitis,Ear and labyrinth disorders,Uncommon: Vertigo,Rare: Tinnitus

Cardiac disorders:Rare: Palpitations,Cardiac failure has been reported in association with NSAID treatment.

Vascular disorders:Uncommon: Blood pressure increased (see section 4.4), flushing.

Respiratory, thoracic and mediastinal disorders:Rare: Asthma in individuals allergic to aspirin or other NSAIDs

Gastrointestinal disorders:Very common: dyspepsia, nausea, vomiting, abdominal pain, constipation, flatulence, diarrhoea,Uncommon: Occult or macroscopic gastrointestinal haemorrhage, stomatitis, gastritis, eructation,Rare: Colitis, gastroduodenal ulcer, oesophagitis,Very rare: Gastrointestinal perforation,Gastrointestinal haemorrhage, ulceration or perforation may sometimes be severe and potentially fatal, especially in elderly (see section 4.4).

Hepatobiliary disorders:Uncommon: Liver function disorder (e.g. raised transaminases or bilirubin),Very rare: Hepatitis

Skin and subcutaneous tissue disorders:Uncommon: Angioedema, pruritus, rash

Rare: Stevens–Johnson syndrome, toxic epidermal necrolysis, urticaria

Very rare: Dermatitis bullous, erythema multiforme

Not known: Photosensitivity reaction

Renal and urinary disorders:Uncommon: Sodium and water retention, hyperkalaemia (see section 4.4.Special warnings and precautions for use and section 4.5.), renal function test abnormal (increased serum creatinine and/or serum urea)

Very rare: Acute renal failure in particular in patients with risk factors (see section 4.4.)

General disorders and administration site conditions:Uncommon: Oedema including oedema of the lower limbs.

c) Information Characterising Individual Serious and/or Frequently Occurring Adverse Reactions:Very rare cases of agranulocytosis have been reported in patients treated with meloxicam and other potentially myelotoxic drugs (see section 4.5).

d) Adverse reactions which have not been observed yet in relation to the product, but which are generally accepted as being attributable to other compounds in the class Organic renal injury probably resulting in acute renal failure: very rare cases of interstitial nephritis, acute tubular necrosis, nephrotic syndrome, and papillary necrosis have been reported (see section 4.4).

4.9 Overdose:Symptoms following acute NSAID overdose are usually limited to lethargy, drowsiness, nausea, vomiting and epigastric pain, which are generally reversible with supportive care. Gastrointestinal bleeding can occur. Severe poisoning may result in hypertension, acute renal failure, hepatic dysfunction, respiratory depression, coma, convulsions, cardiovascular collapse and cardiac arrest. Anaphylactoid reactions have been reported with therapeutic ingestion of NSAIDs and may occur following an overdose.

Patients should be managed with symptomatic and supportive care following an NSAID overdose. Accelerated removal of meloxicam by 4 g oral doses of cholestyramine given three times a day was demonstrated in a clinical trial.

5. PHARMACOLOGICAL PROPERTIES:5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Non Steroidal Anti-Inflammatory agent, Oxicams:Meloxicam is a non-steroidal anti-inflammatory drug (NSAID) of the oxicam family, with anti-inflammatory, analgesic and antipyretic properties.

The anti-inflammatory activity of meloxicam has been proven in classical models of inflammation. As with other NSAIDs, its precise mechanism of action remains unknown. However, there is at least one common mode of action shared by all NSAIDs (including Meloxicam): inhibition of the biosynthesis of prostaglandins, known inflammation mediators.

5.2 Pharmacokinetic properties:Absorption:Meloxicam is well absorbed from the gastrointestinal tract, which is reflected by a high absolute bioavailability of about 90% following oral administration (capsule). Tablets, oral suspension and capsules were shown to be bioequivalent.

Following single dose administration of meloxicam, median maximum plasma concentrations are achieved within 2 hours for the suspension and within 5-6 hours with solid oral dosage forms (capsules and tablets).With multiple dosing, steady state conditions were reached within 3 to 5 days. Once daily dosing leads to mean drug plasma concentrations with a relatively small peak-trough fluctuation in the range of 0.4 - 1.0 µg/mL for 7.5 mg doses and 0.8 - 2.0 µg/mL for 15 mg doses, respectively (Cmin and Cmax at steady state, correspondingly). Mean maximum plasma concentrations of meloxicam at steady state are achieved within five to six hours for the tablet, capsule and the oral suspension, respectively. Extent of absorption for meloxicam following oral administration is not altered by concomitant food intake or the use of inorganic antacids.

Distribution:Meloxicam is very strongly bound to plasma proteins, essentially albumin (99%). Meloxicam penetrates into synovial fluid to give concentrations approximately half of those in plasma.Volume of distribution is low, i.e. approx. 11 L after i.m. or i.v. administration, and shows interindividual variation in the order of 7 - 20%. The volume of distribution following administration of multiple oral doses of meloxicam (7.5 to 15 mg) is about 16 L with coefficients of variation ranging from 11 to 32%.

Biotransformation:Meloxicam undergoes extensive hepatic biotransformation. Four different metabolites of meloxicam were identified in urine, which are all pharmacodynamically inactive. The major metabolite, 5'-carboxymeloxicam (60% of dose), is formed by oxidation of an intermediate metabolite 5'- hydroxymethylmeloxicam, which is also excreted to a lesser extent (9% of dose). In vitro studies suggest that CYP 2C9 plays an important role in this metabolic pathway, with a minor contribution from the CYP 3A4 isoenzyme. The patient's peroxidase activity is probably responsible for the other two metabolites, which account for 16% and 4% of the administered dose respectively.

Elimination:Meloxicam is excreted predominantly in the form of metabolites and occurs to equal extents in urine and faeces. Less than 5% of the daily dose is excreted unchanged in faeces, while only traces of the parent compound are excreted in urine.

The mean elimination half-life is varies between 13 and 25 hours after oral, i.m. and i.v. administration. Total plasma clearance amounts about 7 - 12 mL/min following single doses orally, intravenously or rectally administered.

Linearity/non-linearity:Meloxicam demonstrates linear pharmacokinetics in the therapeutic dose range of 7.5 mg 15 mg following per oral or intramuscular administration.

Special populations:Patients with hepatic/renal insufficiency:Neither hepatic, nor mild to moderate renal insufficiency has a substantial effect on meloxicam pharmacokinetics. Subjects with moderate renal impairment had significant higher total drug clearance. A reduced protein binding is observed in patients with terminal renal failure. In terminal renal failure, the increase in the volume of distribution may result in higher free meloxicam concentrations, and a daily dose of 7.5 mg must not be exceeded (see section 4.2).

Elderly: Elderly male subjects exhibited similar mean pharmacokinetic parameters compared to those of young male subjects. Elderly female patients showed higher AUC-values and longer elimination half-lives compared to those of young subjects of both genders. Mean plasma clearance at steady state in elderly subjects was slightly lower than that reported for younger subjects.

6. Pharmaceutical particulars:

6.1 List of excipient(s):Moxen 7.5 mg = Maize Starch , Lactose monohydrate , microcrystalline cellulose PH 102, Croscarmellose Sodium, povidone K25, Colloidal Silicon dioxide, Polyoxyl 40 Stearate, Trisodium Citrate anhydrous, Magnesium stearate

Moxen 15 mg = Maize Starch , Lactose monohydrate , microcrystalline cellulose, Aerosil 200, povidone K25, Polyoxyl 40 Stearate, Ac-di-sol, Trisodium Citrate anhydrous, Magnesium stearate

6.2 Special precautions for storage:Storage temperature should not exceed 30°C in dry place.

6.3 Package:Moxen 15 mg :Carton box containing 2 (Al/ opaque PVC) strips each one contains 10 tablets with inner leaflet

Moxen 7.5 mg :Carton box containing 2 (Al/ opaque PVC) strips each one contains 10 tablets with inner leaflet

7. Produced by:Egyptian Group for Pharmaceutical industries

EGPI

V.04 (24x16)