Data Sheet

Arrow - Meloxicam

Meloxicam tablets

Presentation

Arrow - Meloxicam 7.5 mg tablets are light yellow, round bevelled-edged, biconvex tablet with "ML 7.5" on one side and ">" on the reverse.

Uses

Actions

Meloxicam is a non-steroidal anti-inflammatory drug (NSAID) of the enolic acid class, which has shown anti-inflammatory, analgesic and antipyretic properties in animals. Meloxicam showed potent anti-inflammatory activity in all standard models of inflammation. A common mechanism for the above effects may exist in the ability of meloxicam to inhibit the biosynthesis of prostaglandins, known mediators of inflammation.

Comparison of the ulcerogenic dose and the anti-inflammatory effective dose in the rat adjuvant arthritis model confirmed a superior therapeutic margin in animals over standard NSAIDs. In vivo, meloxicam inhibited prostaglandin biosynthesis more potently at the site of inflammation than in the gastric mucosa or the kidney.

These differences are thought to be related to a selective inhibition of COX-2 relative to COX-1 and it is believed that COX-2 inhibition provides the therapeutic effects of NSAIDs whereas inhibition of constitutive COX-1 may be responsible for gastric and renal side effects.

The COX-2 selectivity of meloxicam has been confirmed both in vitro and ex vivo in a number of test systems. In the human whole blood assay, meloxicam has been shown in vitro to inhibit COX-2 selectively. Meloxicam (7.5mg and 15mg) demonstrated a greater inhibition of COX-2 ex vivo, as demonstrated by a greater inhibition of lipopolysaccharide-stimulated PGE₂ production (COX-2) as compared with thromboxane production in clotting blood (COX-1). These effects were dose-dependent. Meloxicam has been demonstrated to have no effect on either platelet aggregation or bleeding time at recommended doses ex vivo, while indomethacin, diclofenac, ibuprofen and naproxen significantly inhibited platelet aggregation and prolonged bleeding.

In clinical trials, gastro-intestinal adverse events overall were reported less frequently with meloxicam 7.5mg and 15mg than with the NSAIDs with which it has been compared, due predominantly to a lower reporting incidence of events such as dyspepsia, vomiting, nausea and abdominal pain. There is no single study powered
adequately to detect statistically differences in the incidence of clinically significant upper gastro-intestinal perforation, obstruction, or bleeds between meloxicam and other NSAIDs. A pooled analysis has been conducted involving patients treated with meloxicam in 35 clinical trials in the indications osteoarthritis, rheumatoid arthritis, and ankylosing spondylitis. Exposure to meloxicam in these trials ranged from 3 weeks to one year (most patients were enrolled in one-month studies). Almost all patients participated in trials that permitted enrolment of patients with a prior history of gastro-intestinal perforation, ulcer or bleed. The incidence of clinically significant upper gastro-intestinal perforation, obstruction, or bleed (POB) was assessed retrospectively following independent blinded review of cases. Results are shown in the following table.

Cumulative risk of POBs for meloxicam 7.5mg and 15mg from clinical trials compared to diclofenac and piroxicam (Kaplan-Meier estimates)

<table>
<thead>
<tr>
<th>TREATMENT Daily dose</th>
<th>Interval (days)</th>
<th>Patients at interval midpoint</th>
<th>POBs within interval</th>
<th>Risk (%)</th>
<th>95% confidence interval</th>
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</thead>
<tbody>
<tr>
<td>Meloxicam 7.5mg</td>
<td>1 - &lt;30</td>
<td>9636</td>
<td>2</td>
<td>0.02</td>
<td>0.00 - 0.05</td>
</tr>
<tr>
<td></td>
<td>30 - &lt;91</td>
<td>551</td>
<td>1</td>
<td>0.05</td>
<td>0.00 - 0.13</td>
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<tr>
<td>Meloxicam 15mg</td>
<td>1 - &lt;30</td>
<td>2785</td>
<td>3</td>
<td>0.12</td>
<td>0.00 - 0.25</td>
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<tr>
<td></td>
<td>30 - &lt;91</td>
<td>1683</td>
<td>5</td>
<td>0.40</td>
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<tr>
<td></td>
<td>91 - &lt;182</td>
<td>1090</td>
<td>1</td>
<td>0.50</td>
<td>0.16 - 0.83</td>
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<tr>
<td></td>
<td>182 - &lt;365</td>
<td>642</td>
<td>0</td>
<td>0.50</td>
<td></td>
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<tr>
<td>Diclofenac 100mg</td>
<td>1 - &lt;30</td>
<td>5110</td>
<td>7</td>
<td>0.14</td>
<td>0.04 - 0.24</td>
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<tr>
<td></td>
<td>30 - &lt;91</td>
<td>493</td>
<td>2</td>
<td>0.55</td>
<td>0.00 - 1.13</td>
</tr>
<tr>
<td>Piroxicam 20mg</td>
<td>1 - &lt;30</td>
<td>5071</td>
<td>10</td>
<td>0.20</td>
<td>0.07 - 0.32</td>
</tr>
<tr>
<td></td>
<td>30 - &lt;91</td>
<td>532</td>
<td>6</td>
<td>1.11</td>
<td>0.35 - 1.86</td>
</tr>
</tbody>
</table>

**Pharmacokinetics**

Meloxicam is well absorbed from the gastrointestinal tract, which is reflected by a high absolute bioavailability of 89% following oral administration.

Following single dose administration of meloxicam, mean maximum plasma concentrations are achieved within 5-6 hours for the tablets.

With multiple dosing, steady state conditions were reached within 3 to 5 days. Once daily dosing leads to 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 15mg doses, respectively (C_{min} and C_{max} at steady state, respectively). Maximum plasma concentrations of meloxicam at steady state, are achieved within five hours for the tablet.

Continuous treatment for longer periods (e.g. six months) did not point to any changes in pharmacokinetics compared to steady state pharmacokinetics after two weeks of oral treatment with 15 mg meloxicam/day. Any differences after treatment longer than six months are thus rather unlikely.

**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, on average 11 L. Interindividual variation is the order of 30-40%.

**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 about 20 hours. Total plasma clearance amounts on average to 8 mL/min.

**Linearity/non-linearity**

Meloxicam demonstrates linear pharmacokinetics in the therapeutic dose range of 7.5 mg to 15 mg following per oral or intramuscular administration.

**Special populations**

Hepatic/renal Insufficiency:

Neither hepatic insufficiency, nor mild to moderate renal insufficiency have a substantial effect on meloxicam pharmacokinetics. 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.
Elderly:

Mean plasma clearance at steady state in elderly subjects was slightly lower than that reported for younger subjects.

Children:

In a study of 36 children, kinetic measurements were made in 18 children at doses of 0.25 mg/kg BW. Maximum plasma concentration $C_{\text{max}}$ (-34%) as well as AUC$_{0-\infty}$ (-28%) tended to be lower in the younger age group (aged 2 to 6 years, n = 7) as compared to the older age group (7 to 14 years, n = 11) while weight normalised clearance appeared to be higher in the younger age group. A historical comparison with adults revealed that plasma concentrations were at least similar for older children and adults. Plasma elimination half-lives (13 h) were similar for both groups and tended to be shorter than in adults (15-20 h).

**Indications**

Symptomatic treatment of painful osteoarthritis (arthrosis, degenerative joint disease).

Symptomatic treatment of rheumatoid arthritis.

In patients for whom longer-term use may be required, treatment efficacy should be reviewed within the first month of treatment and Arrow - Meloxicam tablets withdrawn if there is a lack of therapeutic benefit. Patients on long-term treatment should be reviewed regularly, such as every three months with regards to efficacy, risk factors and the ongoing need for treatment.

The decision to prescribe a selective COX-2 inhibitor should only be made after assessment of the individual patient's overall risk for developing severe adverse events e.g. history of cardiovascular, renal, or gastrointestinal disease, and after use of alternative therapies such as non-pharmacological interventions and simple analgesic therapy where these have been found to lack analgesic efficacy or to have unacceptable adverse effects.

**Dosage and Administration**

Arrow - Meloxicam tablets may be administered in a dose of 7.5mg daily. As the potential for adverse reactions increases with dose and duration of exposure, all patients taking Arrow - Meloxicam tablets should commence therapy at the lowest recommended dose, and be titrated to the lowest dose compatible with effective control of symptoms for the shortest possible period.

**Osteoarthritis:**

7.5 mg per day. If necessary, the dose may be increased to 15 mg/day.

**Rheumatoid arthritis:**
15 mg/day. According to the therapeutic response, the dose may be reduced to 7.5 mg/day.

In dialysis patients with severe renal failure:

The dose should not exceed 7.5 mg per day.

In patients with mild to moderate renal impairment (creatinine clearance of greater than 25 mL/min):

The dose should not exceed 7.5 mg per day.

Adolescents:

The maximum recommended dose for adolescents is 0.25 mg/kg.

In general usage should be restricted to adolescents and adults, see Contraindications.

Tablets should be swallowed with water and other fluid in conjunction with food.

Contraindications

- Patients with known hypersensitivity to meloxicam or its excipients. There is a potential for cross sensitivity to aspirin and other NSAIDs.
- Meloxicam tablets should not be given to patients who have developed signs of asthma, nasal polyps, angioedema or urticaria following the administration of aspirin or other NSAIDs.
- Active or recent gastro-intestinal ulceration/perforation.
- Active Inflammatory Bowel Disease (Crohn's Disease or Ulcerative Colitis)
- Severe hepatic insufficiency.
- Non-dialysed severe renal insufficiency.
- Overt gastro-intestinal bleeding, recent cerebrovascular bleeding or established systemic bleeding disorders.
- Severe uncontrolled heart failure.
- Patients who have previously had a myocardial infarction or stroke.
- Meloxicam tablets should not be given in the peri-operative period in patients undergoing cardiac surgery, including coronary artery bypass graft (CABG), or major vascular surgery
- Children and adolescents aged less than 12 years.
- Pregnancy or lactation.

Warnings and Precautions

As with other NSAIDs caution should be exercised when treating patients with a history of upper gastrointestinal disease and in patients receiving treatment with anticoagulants. Patients with gastrointestinal symptoms should be monitored. Arrow - Meloxicam tablets should be withdrawn if peptic ulceration or gastrointestinal bleeding occurs.
Serious gastrointestinal (GI) toxicity such as bleeding, ulceration and perforation of the stomach, small intestine or large intestine, which may be potentially fatal, can occur at any time, with or without warning symptoms, in patients treated with NSAIDs. The consequences of such events are generally more serious in the elderly.

Only one in five patients who develop a serious upper GI adverse event on NSAID therapy is symptomatic. It has been demonstrated that upper GI ulcers, gross bleeding or perforation, caused by NSAIDs, appear to occur in approximately 1% of patients treated for 3-6 months, and in about 2-4% of patients treated for one year. These trends continue thus, increasing the likelihood of developing a serious GI event at some time during the course of therapy. However, even short-term therapy is not without risk. Most spontaneous reports of fatal GI events are in elderly or debilitated patients and therefore special care should be taken in treating this population.

Studies have shown that patients with a prior history of ulcer disease and/or gastrointestinal bleeding and who use NSAIDs have a greater than 10-fold higher risk of developing a gastrointestinal bleed than patients with neither of these factors.

Caution is advised in patients most at risk of developing a gastrointestinal complication with NSAIDs: the elderly, patients using any other NSAID or aspirin concomitantly or patients with a prior history of or recent gastrointestinal disease such as ulceration and gastrointestinal bleeding.

NSAIDs should be prescribed with caution in patients with a prior history of or recent ulcer disease or gastrointestinal bleeding. For high risk patients, alternate therapies that do not involve NSAIDs should be considered.

Minor upper GI problems, such as dyspepsia, are common and may occur at any time during NSAID therapy. Therefore physicians and patients should remain alert for ulceration and bleeding, even in the absence of previous GI tract symptoms. Patients should be informed about the signs and/or symptoms of serious GI toxicity and the steps to take if they occur.

NSAIDs may increase the 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.

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. 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. Arrow - Meloxicam tablets should be discontinued at the first appearance of skin rash, mucosal lesions, or any other sign of hypersensitivity.

As with other NSAIDs, meloxicam inhibits the synthesis of renal prostaglandins which play a supportive role in the maintenance of renal perfusion. In patients whose renal blood flow and blood volume are decreased, administration of an NSAID may
precipitate overt renal decompensation which is typically followed by recovery to pre-treatment state upon discontinuation of non-steroidal anti-inflammatory therapy. Patients at greatest risk of such a reaction are elderly individuals, dehydrated patients, those with congestive heart failure, liver cirrhosis, nephrotic syndrome and overt renal disease, those receiving concomitant treatment with a diuretic, ACE inhibitor or angiotensin II receptor antagonist or those having undergone major surgical procedures, which led to hypovolaemia. In such patients, the volume of diuresis and the renal function should be carefully monitored at the beginning of therapy.

In rare instances NSAIDs may be the cause of interstitial nephritis, glomerulonephritis, renal medullary necrosis or nephrotic syndrome.

The dose of meloxicam tablets in patients with end-stage renal failure on haemodialysis should not be higher than 7.5 mg. Patients with mild or moderate renal impairment (i.e. in patients with a creatinine clearance of greater than 25 mL/min) may take 7.5 mg daily.

As with most other NSAIDs, occasional elevations of serum transaminases or other parameters of liver function have been reported. In most cases, these have been small and transient increases above the normal range. If the abnormality is significant or persistent, meloxicam tablets should be stopped and follow up tests carried out.

No dose reduction is required in patients with clinically stable liver cirrhosis.

Use of COX-2 inhibitors (of which meloxicam is one) has been associated with an increased risk of cardiovascular adverse events (myocardial infarction and stroke). This association has been demonstrated with agents of the Coxib class.

Prescribers should inform the individual patient of the (possible or potential) increased risks when prescribing meloxicam tablets for patients at high risk of cardiovascular adverse events (including patients with diabetes, ischaemic heart disease, cardiac failure, hyperlipidaemia, hypertension or smokers).

Two large, controlled clinical trials of a different COX-2 selective inhibitor for the treatment of pain in the first 10-14 days following CABG surgery found an increased incidence of myocardial infarction and stroke. In the absence of comparable data with meloxicam, it may be assumed that patients at high risk of cardiovascular disease (including patients with diabetes, ischaemic heart disease, cardiac failure, hyperlipidaemia, hypertension, or smokers) who are undergoing any major surgery may face an increased risk of developing a cardiovascular event. Such patients with significant risk factors for cardiovascular events should only be treated with meloxicam after careful consideration of the patient's overall risk and the potential risks and benefits of alternative analgesic therapies.

Arrow - Meloxicam tablets are not a substitute for cardiovascular prophylaxis and concurrent anti-platelet therapies should not be discontinued. There is no evidence that concurrent use of aspirin decreases the risk of cardiovascular adverse events associated with COX-2 inhibitors, including Arrow - Meloxicam tablets.
Concurrent use of aspirin negates most of the gastrointestinal benefit associated with COX-2 inhibitors, including Arrow - Meloxicam tablets.

Frail or debilitated patients may be less tolerant to side effects and such patients should be carefully supervised. As with other NSAIDs, caution should be used in the treatment of elderly patients who are more likely to be suffering from impaired renal, hepatic or cardiac function.

Induction of sodium, potassium and water retention and interference with the natriuretic effects of diuretics may occur with NSAIDs. Use of COX-2 inhibitors (of which meloxicam is one) or other NSAIDs may precipitate or exacerbate pre-existing hypertension, cardiac failure or oedema in susceptible patients, and the treatment of these conditions may be compromised. For patients at risk, clinical monitoring is recommended.

Meloxicam, as any other NSAID may mask symptoms of an underlying infectious disease.

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

For relevant drug interactions that require particular attention, see Interactions.

There are no specific studies about the effects on the ability to drive vehicles and to use machinery. Patients who experience visual disturbances, drowsiness or other central nervous system disturbances should refrain from these activities.

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

Use in pregnancy

Meloxicam is contraindicated during pregnancy.

Inhibition of prostaglandin-synthesis may adversely affect pregnancy and/or the embryo-foetal development. Data from epidemiological studies suggest an increased risk of miscarriage and of cardiac malformation after use of a prostaglandin synthesis inhibitor in early pregnancy. The absolute risk for cardiovascular malformation and gastrochisis 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 increase 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 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

Use in lactation

While no specific experience exists for meloxicma tablets, NSAIDs are known to pass into mother’s milk. Administration therefore is contraindicated in women who are breastfeeding.

Effects on ability to drive and use machines

There are no specific studies about the effects on the ability to drive vehicles and to use machinery. Patients who experience visual disturbances, drowsiness or other central nervous system disturbances should refrain from these activities.

Adverse Effects

The meloxicam phase II/III safety database includes 10,122 osteoarthritis patients and 1012 rheumatoid arthritis patients treated with meloxicam 7.5 mg/day and 3,505 osteoarthritis patients and 1351 rheumatoid arthritis patients treated with meloxicam 15 mg/day. Meloxicam at these doses was administered to 661 patients for at least six months and to 312 patients for at least one year. Approximately 10,500 of these patients were treated in ten placebo and or active-controlled osteoarthritis trials and 2362 of these patients were treated in ten placebo and or active-controlled rheumatoid arthritis trials. Gastrointestinal (GI) adverse events were the most frequently reported adverse events in all treatment groups across meloxicam trials.

Gastrointestinal disorders

Adverse events occurring in ≥ 2% of meloxicam patients in a 12-week osteoarthritis placebo- and active-controlled trial: abdominal pain, diarrhea, dyspepsia, flatulence, nausea

The adverse events that occurred with meloxicam in ≥ 2% of patients treated short-term (4-6 weeks) and long-term (6 months) in active controlled osteoarthritis trials: abdominal pain, constipation, diarrhea, dyspepsia, flatulence, nausea, vomiting

The adverse events that occurred in <2% of patients, treated with daily oral doses of 7.5 or 15 mg meloxicam tablets or capsules over a period of up to 18 months:

Gastrointestinal disorders not mentioned above: stomatitis, eructation. Gastrointestinal haemorrhage, ulceration or perforation may potentially be fatal.
Blood and lymphatic system disorders: blood count abnormal (including differential white cell count), leukopenia, thrombocytopenia, anaemia. Concomitant administration of a potentially myelotoxic drug, in particular methotrexate, appears to be a predisposing factor to the onset of a cytopenia.

Immune system disorders: anaphylactic reaction, anaphylactoid reaction, and other immediate hypersensitivity

Psychiatric disorders: confusional state, disorientation, mood altered

Nervous system disorders: dizziness, somnolence, headache

Eye disorders: visual disturbance including vision blurred, conjunctivitis

Ear and labyrinth disorders: vertigo, tinnitus

Cardiac disorders: palpitations

Vascular disorders: blood pressure increased, flushing

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

Hepatobiliary disorders: Hepatitis, liver function test abnormal (e.g. raised transaminases or bilirubin)

Skin and subcutaneous tissue disorders: toxic epidermal necrolysis, Stevens-Johnson syndrome, angioedema, dermatitis bullous, erythema multiforme, rash, urticaria, photosensitivity reaction, pruritus

Renal and urinary disorders: renal failure acute, renal function test abnormal (increased serum creatinine and/or serum urea). The use of NSAIDs may be related to micturition disorders, including acute urinary retention.

General disorders and administration site conditions: oedema

**Interactions**

No relevant pharmacokinetic drug-drug interactions were detected with respect to the concomitant administration of antacid, cimetidine, digoxin and frusemide.

Associations to be taken into account:

- **Other Prostaglandin Synthetase Inhibitors (PSI) including glucocorticoids and salicylates:** (acetylsalicylic acid): Co-administration of PSIs may increase the risk of gastrointestinal ulcers and bleeding via a synergistic effect and is not recommended. The concomitant use of meloxicam with other NSAIDs is not recommended. Concomitant administration of aspirin (1000 mg tid) to healthy volunteers tended to increase the AUC (10%) and C_{max} (24%) of meloxicam. The clinical significance of this interaction is not known.
• Oral anticoagulants, antiplatelet drugs, systemically administered heparin, thrombolytics and Selective Seratonin Reuptake Inhibitors (SSRIs): increased risk of bleeding via inhibition of platelet function. If such co-prescribing cannot be avoided, close monitoring is required.

• Lithium: NSAIDs have been reported to increase lithium plasma levels. (acetylsalicylic acid): Administration of several NSAIDs together may increase the risk of gastro-intestinal ulcers and bleeding, via a synergistic effect. The concomitant use of meloxicam with other NSAIDs is not recommended. Concomitant administration of aspirin (1000 mg tid) to healthy volunteers tended to increase the AUC (10%) and Cmax (24%) of meloxicam. The clinical significance of this interaction is not known.

• 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. 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 (15 mg/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.

• Contraception: A decrease of the efficacy of intrauterine devices by NSAIDs has been previously reported but needs further confirmation.

• Diuretics: Treatment with NSAIDs is associated with the potential for acute renal insufficiency in patients who are dehydrated. Patients receiving meloxicam and diuretics should be adequately hydrated and be monitored for renal function prior to initiating treatment.

• Antihypertensives (e.g. beta-blockers, ACE-inhibitors, vasodilators, diuretics): A reduced effect of the antihypertensive drug by inhibition of vasodilating prostaglandins has been reported during treatment with NSAIDs.

• NSAIDs and angiotensin-II receptor antagonists as well as ACE inhibitors exert a synergistic effect on the decrease of glomerular filtration. In patients with pre-existing renal impairment this may lead to acute renal failure.

• Cholestyramine binds meloxicam in the gastrointestinal tract leading to a faster elimination of meloxicam.

• Nephrotoxicity of cyclosporin may be enhanced by NSAID’s via renal prostaglandin mediated effects. During combined treatment renal function is to be measured.

• Interactions with oral antidiabetics cannot be excluded.

Meloxicam is eliminated almost entirely by hepatic metabolism, of which approximately two thirds are mediated by cytochrome (CYP) P450 enzymes (CYP 2C9 major pathway and CYP 3A4 minor pathway) and one-third by other pathways, such as peroxidase oxidation. The potential for a pharmacokinetic interaction should
be taken into account when meloxicam and drugs known to inhibit, or to be metabolised by, CYP 2C9 and/or CYP 3A4 are administered concurrently.

**Overdosage**

In case of overdose the standard measures of gastric evacuation and general supportive measures should be used, as there is no known antidote. It has been shown in a clinical trial that cholestyramine accelerates the elimination of meloxicam.

**Pharmaceutical Precautions**

**Shelf life**

Store below 25°C

**Special precautions for storage**

Store in a safe place out of the reach of children

**Medicine Classification**

Prescription Medicine

**Further Information**

Arrow – Meloxicam 7.5 contains meloxicam 7.5 mg. Each tablet also contains the following ingredients: sodium citrate, lactose monohydrate, microcrystalline cellulose, povidone, colloidal silicon dioxide, crospovidone, and magnesium stearate.

**Package quantities**

Arrow – Meloxicam 7.5mg is available in blister packs of 30 tablets, HDPE bottles with 100 or 500 tablets. Not all package size may be marketed.

**Name and Address**

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**Date of Preparation**

22 March 2017