Summary of Product Characteristics

1 NAME OF THE MEDICINAL PRODUCT

Meloxicam Chanelle Medical 15 mg Tablets

2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Each tablet contains: 15 mg meloxicam.

Excipient: Each tablet contains 81.70 mg lactose (as lactose monohydrate).

For a full list of excipients see section 6.1.

3 PHARMACEUTICAL FORM

Tablet

Pale yellow coloured round tablet with a score line on one side.

The tablet can be divided into equal halves.

4 CLINICAL PARTICULARS

4.1 Therapeutic indications

Meloxicam Chanelle Medical is indicated in adults and children above 16 years.

- 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

Posology

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 osteoarthrosis: 7.5 mg/day (one 7.5 mg tablet).

If necessary, in the absence of improvement, the dose may be increased to 15 mg/day (two 7.5 mg tablets).

- Rheumatoid arthritis, ankylosing spondylitis: 15 mg/day (two 7.5 mg tablets).

(see also section 'special populations' below).

According to the therapeutic response, the dose may be reduced to 7.5 mg/day (one 7.5 mg tablet).

DO NOT EXCEED THE DOSE OF 15 MG/DAY.

Special populations

Elderly patients (see section 5.2):

The recommended dose for long term treatment of rheumatoid arthritis and ankylosing spondylitis in elderly patients is 7.5 mg daily (see also sections 4.2 "Patients at increased risk of adverse reactions" and 4.4)

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Patients at increased risk of adverse reactions (see section 4.4)

In patients who are at increased risk for adverse reactions e.g. with a history of gastrointestinal disease or with risk factors for cardiovascular diseas,)

treatment should be started at a dose of 7.5 mg daily.

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).

Paediatric population:

Meloxicam Chanelle Medical 7.5mg & 15mg tablets is contraindicated in children and adolescents aged under 16 years (see section 4.3).

This medicinal product exists in other dosages, which may be more appropriate.

Method of administration

Oral use

The total daily amount should be taken as a single dose, with water or another liquid, during a meal.

4.3 Contraindications

The medicinal product is contra-indicated in the following situations:

- third trimester of pregnancy (see section 4.6);
- children and adolescents aged under 16 years;
- hypersensitivity to meloxicam or to one of the excipients or hypersensitivity to substances with a similar action e.g. NSAID's, acetylsalicylic acid (e.g. aspirin). Meloxicam tablets should not be given to patients who have developed signs of asthma, nasal polyps, angioneurotic oedema or urticaria following the administration of acetylsalicylic acid (e.g. aspirin) or other NSAID's;
- history of gastrointestinal bleeding or perforation, related to previous NSAIDs therapy;
- active, or history of recurrent peptic 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 minimised by using the lowest effective dose for the shortest duration necessary to control symptoms (see section 4.2, and GI and cardiovascular risks below).

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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

GI bleeding, ulceration or perforation, which can be fetal, has been reported with all NSAIDs at any time during treatment, with or without warning symptoms or a previous history of serious GI 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.

In patients receiving concomitant medications which could increase the risk of ulceration or bleeding, such as heparin as curative treatment or given in geriatric, oral corticosteroids, anticoagulants such as warfarin, selective serotonin-reuptake inhibitors or other non steroidal anti-inflammatory drugs, or acetylsalicylic acid given at doses \geq 500 mg as single intake or \geq 3 g as total daily amount the combination with meloxicam is not recommended (see section 4.5).

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

NSAID's 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).

Cardiovascular and cerebrovascular effects:

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

Serous 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 section 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.

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Life-threatening cutaneous reactions Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN) have been reported with the use of Meloxicam. Patients should be advised of the signs and symptoms and monitored closely for skin reactions. The highest risk for occurrence of SJS or TEN is within the first weeks of treatment.

If symptoms or signs of SJS or TEN (e.g. progressive skin rash often with blisters or mucosal lesions) are present, Meloxicam treatment should be discontinued.

The best results in managing SJS and TEN come from early diagnosis and immediate discontinuation of any suspect drug. Early withdrawal is associated with a better prognosis.

If the patient has developed SJS or TEN with the use of Meloxicam, Meloxicam must not be re-started in this patient at any time.

Cases of fixed drug eruption (FDE) have been reported with meloxicam. Meloxicam should not be reintroduced in patients with history of meloxicam-related FDE. Potential cross reactivity might occur with other oxicams.

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 as well as 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-Ilantagonists, sartans, diuretics (see section 4.5)
- hypovolaemia (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 instances, 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 7.5mg. No dose reduction is required in patients with mild to moderate renal impairement (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.

Combination with pemetrexed

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In patients with mild to moderate renal insufficiency receiving pemetrexed, meloxicam should be interrupted for at least 5 days prior to, on the day of, and at least 2 days following pemetrexed administration (see section 4.5).

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, as with any drug known to inhibit cyclooxygenase/prostaglandin syntheses, may impair 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).

This medicinal product contains lactose. Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose galactose malabsorption should not take this medicine.

This medicine contains less than 1 mmol sodium(23 mg) per Tablet, that is to say essentially 'sodium-free'.

4.5 Interaction with other medicinal products and other forms of interaction

Interaction studies have only been performed in adults.

Risks related to hyperkalaemia:

Certain medicinal products or therapeutic groups may promote hyperkalaemia: potassium salts, potassium-sparing diuretics, angiotensin-converting enzyme (ACE) inhibitors, angiotensin II receptor antagonists, non-steroidal anti-inflammatory drugs, (low molecular-weight or unfractionated) heparins, cyclosporin, tacrolimus and trimethoprim.

The onset of hyperkalaemia may depend on whether there are associated factors.

This risk is increased when the above-mentioned medicinal products are co administered with meloxicam.

Pharmacodynamic Interactions:

Other non steroidal anti-inflammatory drugs (NSAIDs) and acetylsalicylic acid:

combination (see section 4.4) with other non steroidal anti-inflammatory drugs, acetylsalicylic acid given at doses \geq 500 mg as single intake or \geq 3 g as total daily amount is not recommended as the administration of several NSAIDs together may increase the risk of gastrointestinal ulcers and bleeding via synergistic effect.

Corticosteroids (e.g. Glucocorticoids):

The concomitant use with corticosteroids requests caution because of an increased risk of bleeding or gastrointestinal ulceration.

Anticoagulant or heparin:

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, thrombin inhibitors and factor Xa inhibitors (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 (e.g. preventive doses) of heparin use caution is necessary due to an increased bleeding risk.

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

Thrombolytics and anti platelet 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.

Deferasirox:

The concomitant administration of meloxicam with deferasirox may increase the risk of gastro-intestinal adverse reactions. Caution should be exercised when combining these medicinal products.

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.

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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 (see above). (See section 4.8).

Pemetrexed:

For the concomitant use of meloxicam with pemetrexed in patients with mild to moderate renal impairment (creatinine clearance from 45 to 79 ml/min), the administration of meloxicam should be paused for 5 days before, on the day of, and 2 days following pemetrexed administration. If a combination of meloxicam with pemetrexed is necessary, patients should be closely monitored, especially for myelosuppression and gastro-intestinal adverse reactions. In patients with severe renal impairment (creatinine clearance below 45 ml/min) the concomitant administration of meloxicam with pemetrexed is not recommended.

In patients with normal renal function (creatinine clearance \geq 80 ml/min), doses of 15 mg meloxicam may decrease pemetrexed elimination and, consequently, increase the occurrence of pemetrexed adverse events. Therefore, caution should be exercised when administering 15 mg meloxicam concurrently with pemetrexed to patients with normal function (creatinine clearance \geq 80 ml/min).

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±3 hrs. This interaction is of clinical significance.

Pharmacokinetic Interactions: Effects of the combination of meloxicam with other drugs on the pharmacokinetics

Oral antidiabetics (sulfonylureas, nateglinide)

Meloxicam is almost completely eliminated by hepatic metabolism, approximately two-thirds of which it is mediated by cytochrome (CYP) P450 enzymes (CYP 2C9 major pathway and CYP 3A4 minor pathway) and one-third by other pathways, such as oxidation by peroxidase. The possibility of a pharmacokinetic interaction should be considered when meloxicam is co-administered with other drugs that inhibit, or are metabolized by, CYP 2C9 and / or CYP 3A4. Interactions via CYP 2C9 can be expected in combination with medicinal products such as oral antidiabetics (sulfonylureas, nateglinide), which can lead to increased plasma levels of these drugs and meloxicam. Patients taking meloxicam in combination with sulphonylureas or nateglinide should be carefully monitored for hypoglycaemia.

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

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.

From the 20th week of pregnancy onward, meloxicam use may cause oligohydramnios resulting from foetal renal dysfunction. This may occur shortly after treatment initiation and is usually reversible upon discontinuation. In addition, there have been reports of ductus arteriosus constriction following treatment in the second trimester, most of which resolved after treatment cessation. Therefore, 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.

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Antenatal monitoring for oligohydramnios and ductus arteriosus constriction should be considered after exposure to meloxicam for several days from gestational week 20 onward. Meloxicam should be discontinued if oligohydramnios or ductus arteriosus constriction are found.

During the third trimester of pregnancy, all prostaglandin synthesis inhibitors may expose the foetus to:

- cardiopulmonary toxicity (premature constriction / closure of the ductus arteriosus and pulmonary hypertension).
- renal dysfunction (see above).

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 breast-feeding.

4.7 Effects on ability to drive and use machines

There are no specific studies of the ability to drive and use machinery. 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 or 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.

Severe cutaneous adverse reactions (SCARs): Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN) have been reported (see section 4.4).

The frequencies of adverse drug reactions given below are based on corresponding occurrences of reported adverse events in 27 clinical trials with a treatment duration of at least 14 days. The information is based on clinical trials involving 15197 patients who have been treated with daily oral doses of 7.5 or 15 mg meloxicam tablets or capsules over a period of up to one year.

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

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

Very common (\geq 1/10); common (\geq 1/100, < 1/10); uncommon (\geq 1/1,000, < 1/100); rare (\geq 1/10,000, < 1/1,000); very rare (< 1/10,000), not known (cannot be estimated from the available data).

b) Table of adverse reactions

Blood and the lymphatic system disorders

Uncommon: Anaemia

Rare: Blood count abnormal (including differential white cell count): leucocytopenia; thombocytopenia;

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 disturbances 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: Gastrointestinal disorders such as 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

Not known: pancreatitis

Gastrointestinal haemorrhage, ulceration or perforation may sometimes be severe and potentially fatal, especially in elderly (see section 4.4).

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Hepatobiliary disorders

Uncommon: Liver function disorder (e.g. raised transaminases or bilirubin)

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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, fixed drug eruption (see Section 4.4)

Renal and urinary disorders

Uncommon: Sodium and water retention, hyperkalaemia, (see section 4.4.and section 4.5.), renal function test abnormal

(increased serum creatinine and/or serum urea)

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

Reproductive system and breast disorders

Not known: female infertility, delayed ovulation

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)

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal

product. Healthcare professionals are asked to report any suspected adverse reactions via HPRA Pharmacovigilance, Earlsfort Terrace, IRL - Dublin 2, Tel: +353 1 6764971, Fax: +353 1 6762517, Website: www.hpra.ie, e-mail: medsafety@hpra.ie.

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 drugs, Oxicams.

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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 drug plasma concentrations with a relatively small peak-trough fluctuation in the range of 0.4-1.0 microgram/mL for 7.5 mg doses and 0.8 – 2.0 microgram/mL for 15 mg doses, respectively (C_{min} and C_{max} at steady state, respectively). 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. Continuous treatment for periods of more than one year results in similar drug concentrations to those seen once steady state is first achieved. 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 bio transformation. 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 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 and 15 mg following per oral or intramuscular administration.

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Special populations

Patients with hepatic/renal Insufficiency:

Neither hepatic, mild nor moderate renal insufficiency have 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.

5.3 Preclinical safety data

The toxicological profile of meloxicam has been found in preclinical studies to be identical to that of NSAIDs: gastrointestinal ulcers and erosions, renal papillary necrosis at high doses during chronic administration in two animal species.

Oral reproductive studies with meloxicam in the rat have shown a decrease of ovulations and inhibition of implantations and embryotoxic effects (increase of resorptions) at maternotoxic dose levels at 1 mg/kg and higher. Studies of toxicity on reproduction in rats and rabbits did not reveal teratogenicity up to oral doses of 4 mg/kg in rats and 80 mg/kg in rabbits.

The affected dose levels exceeded the clinical dose (7.5 – 15 mg) by a factor of 10 to 5-fold on a mg/kg dose basis (75 kg person). Fetotoxic effects at the end of gestation, shared by all prostaglandin synthesis inhibitors, have been described. No evidence has been found of any mutagenic effect, either *in vitro* or *in vivo*. No carcinogenic risk has been found in the rat and mouse at doses far higher than those used clinically.

6 PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Microcrystalline Cellulose Pregelatinised Maize Starch Lactose Monohydrate Maize Starch Sodium Citrate Colloidal Anhydrous Silica Magnesium Stearate

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

3 years.

6.4 Special precautions for storage

This medicinal product does not require any special storage conditions.

6.5 Nature and contents of container

Blister of PVC/PVdC and hard tempered Aluminium foil. Cartons of 7, 10, 14, 15, 20, 28, 30, 50, 60, 100, 140, 280, 300, 500, or 1000 tablets, (not all pack sizes may be marketed).

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6.6 Special precautions for disposal

No special requirements.

7 MARKETING AUTHORISATION HOLDER

Chanelle Medical Unlimited Company Dublin Road Loughrea Co. Galway H62 FH90 Ireland

8 MARKETING AUTHORISATION NUMBER

PA0688/005/002

9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 2nd December 2005 Date of last renewal: 14th January 2009

10 DATE OF REVISION OF THE TEXT

January 2024

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