

**MELOXICAM: meloxicam tablet
PD-R, Pharmaceuticals, Inc.**

HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all of the information needed to use MELOXICAM TABLETS USP, safely and effectively. See Full prescribing information for MELOXICAM TABLETS USP.

MELOXICAM Tablets USP, for oral use
Initial U.S. Approval: 2000

WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS
See Full prescribing information for complete boxed warning.
• **Nonsteroidal anti-inflammatory drugs (NSAIDs) cause an increased risk of serious cardiovascular thrombotic events, including myocardial infarction and stroke, which can be fatal. This risk may occur early in treatment and may increase with duration of use. [See Warnings and Precautions (5.1).]**
• **MELOXICAM tablets are contraindicated in the setting of coronary artery bypass graft (CABG) surgery. [See Contraindications (4).]**
• **NSAIDs cause an increased risk of serious gastrointestinal (GI) adverse events including bleeding, ulceration, and perforation of the stomach or intestines, which may be fatal; these events may occur without warning symptoms. Elderly patients and patients with a prior history of peptic ulcer disease and/or GI bleeding are at greater risk for serious GI events. [See Warnings and Precautions (5.2).]**

RECENT MAJOR CHANGES
Warnings and Precautions, Juvenile Rheumatoid Arthritis (JRA) Pauciarthral and Polyarthral Course (1.3)
Contraindications, Coronary Artery Bypass Graft (CABG) Surgery (4)
Dosage and Administration, Juvenile Rheumatoid Arthritis (JRA) Pauciarthral and Polyarthral Course (1.3)
Warnings and Precautions, Cardiovascular Thrombotic Events (5.1)
Warnings and Precautions, Heart Failure and Edema (5.5)
Contraindications (4)
MELOXICAM Tablets USP, for oral use
Initial U.S. Approval: 2000

INDICATIONS AND USAGE
MELOXICAM Tablets USP is a nonsteroidal anti-inflammatory drug indicated for:
• Osteoarthritis (OA) (2)
• Rheumatoid Arthritis (RA) (2)
• Juvenile Rheumatoid Arthritis (JRA) in patients who weigh ≥60 kg (1.3)

DOSE AND ADMINISTRATION
The usual prescribing dosage for the shortest duration consistent with individual patient treatment goals is:
• OA (2) and RA (2):
Starting dose: 7.5 mg once daily
Dose may be increased to 15 mg once daily.

• JRA (2.4):
7.5 mg once daily in children ≥60 kg
MELOXICAM Tablets are not interchangeable with approved formulations of oral meloxicam even if the total meloxicam strength is the same (2.6).

DOSEAGE FORMS AND STRENGTHS
MELOXICAM Tablets USP: 7.5 mg and 15 mg oral tablets (1)
CONTRAINDICATIONS (4)
• Known hypersensitivity to meloxicam or any components of the ingredients (4)
• History of asthma, urticaria, or other allergic-type reactions after taking aspirin or other NSAIDs (4)
• In the setting of CABG surgery (4)

WARNINGS AND PRECAUTIONS
• **Cardiovascular Risk**: Inform patients of an increased risk of serious cardiovascular morbidity and mortality. Discontinue in patients taking some antidiabetic medications who have impaired response to usual doses when taking MELOXICAM Tablets USP. (5.1)
• **GI Bleeding, Ulceration, and Perforation**: Inform patients of an increased risk of serious GI adverse events, including bleeding, ulceration, and perforation of the stomach or intestines, which may be fatal. This risk may occur early in treatment and may increase with duration of use. (5.2)
• **Renal Impairment**: Inform patients of an increased risk of serious renal adverse events. (5.5)
• **Use in Pregnancy**: Advise women of childbearing potential with a history of miscarriage or stillbirth that NSAIDs may increase the risk of miscarriage or stillbirth. (8.1)
• **Use in Children**: Inform patients of an increased risk of serious GI adverse events. (2.4)
• **Use in Elderly Patients**: Inform patients of an increased risk of serious GI adverse events. (5.2)
• **Use in Patients with a History of Peptic Ulcer Disease and/or GI Bleeding**: Inform patients of an increased risk of serious GI adverse events. (5.2)
• **Use in Patients with a History of Peptic Ulcer Disease and/or GI Bleeding**: Inform patients of an increased risk of serious GI adverse events. (5.2)

ADVERSE REACTIONS
• Most common: 10% and greater: headache, dizziness, diarrhea, upper respiratory tract infections, dyspepsia, and influenza-like symptoms (1, 2)
• Serious events observed in clinical trials were listed in order by the adult clinical trial experience (1)

ADVERSE REACTIONS: Contact Us When Prescribed (USA), Inc. at 1-800-4-A-NEE-724 or 1-800-755-2637 for more information.

DRUG INTERACTIONS
• **Aspirin**: Monitor patients for bleeding. (7)
• **Anticoagulants**: Monitor patients for bleeding. (7)
• **Antidiabetic Medications**: Monitor patients for hypoglycemia. (7)
• **Antihypertensives**: Monitor patients for hypotension. (7)
• **Antipsychotics**: Monitor patients for hypotension. (7)
• **Cardiovascular Medications**: Monitor patients for hypotension. (7)
• **Diuretics**: Monitor patients for hypotension. (7)
• **Insulin**: Monitor patients for hypoglycemia. (7)
• **Iron Preparations**: Monitor patients for decreased absorption. (7)
• **Oral Contraceptives**: Monitor patients for decreased effectiveness. (7)
• **Proton Pump Inhibitors**: Monitor patients for decreased effectiveness. (7)
• **Tricyclic Antidepressants**: Monitor patients for decreased effectiveness. (7)
• **Warfarin**: Monitor patients for bleeding. (7)

USE IN SPECIFIC POPULATIONS
• **Pregnancy**: Advise women of childbearing potential that NSAIDs may increase the risk of miscarriage or stillbirth. (8.1)
• **Lactation**: Advise women of childbearing potential that NSAIDs may increase the risk of miscarriage or stillbirth. (8.1)
• **Use in Children**: Inform patients of an increased risk of serious GI adverse events. (2.4)
• **Use in Elderly Patients**: Inform patients of an increased risk of serious GI adverse events. (5.2)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 4/2018

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FULL PRESCRIBING INFORMATION

WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS
Cardiovascular Thrombotic Events
• **Nonsteroidal anti-inflammatory drugs (NSAIDs) cause an increased risk of serious cardiovascular thrombotic events, including myocardial infarction and stroke, which can be fatal. This risk may occur early in treatment and may increase with duration of use. [See Warnings and Precautions (5.1).]**
• **MELOXICAM tablets are contraindicated in the setting of coronary artery bypass graft (CABG) surgery. [See Contraindications (4) and Warnings and Precautions (5.1).]**
Gastrointestinal Bleeding, Ulceration, and Perforation
• **NSAIDs cause an increased risk of serious gastrointestinal (GI) adverse events including bleeding, ulceration, and perforation of the stomach or intestines, which can be fatal. These events can occur at any time during use and without warning symptoms. Elderly patients and patients with a prior history of peptic ulcer disease and/or GI bleeding are at greater risk for serious GI events. [See Warnings and Precautions (5.2).]**

1 INDICATIONS AND USAGE

1.1 Osteoarthritis (OA)
MELOXICAM tablets are indicated for relief of the signs and symptoms of osteoarthritis [see Clinical Studies (14.1)].

1.2 Rheumatoid Arthritis (RA)
MELOXICAM tablets are indicated for relief of the signs and symptoms of rheumatoid arthritis [see Clinical Studies (14.2)].

1.3 Juvenile Rheumatoid Arthritis (JRA) Pauciarthral and Polyarthral Course
MELOXICAM tablets are indicated for relief of the signs and symptoms of pauciarthral or polyarthral course juvenile rheumatoid arthritis in patients who weigh ≥60 kg [see Dosage and Administration (2.4) and Clinical Studies (14.2)].

2 DOSAGE AND ADMINISTRATION

2.1 General Dosing Instructions
Carefully consider the potential benefits and risks of MELOXICAM tablets and other treatment options before deciding to use MELOXICAM tablets. Use the lowest effective dosage for the shortest duration consistent with individual patient treatment goals [see Warnings and Precautions (5)].
After observing the response to initial therapy with MELOXICAM tablets, adjust the dose to suit an individual patient's needs.

In adults, the maximum recommended daily oral dose of MELOXICAM tablets is 15 mg, regardless of formulation. In patients with rheumatoid arthritis, a maximum daily dosage of 7.5 mg is recommended [see Use in Specific Populations (8.7) and Clinical Pharmacology (12.2)].
MELOXICAM tablets may be taken without regard to timing of meals.

2.2 Osteoarthritis

For the relief of the signs and symptoms of osteoarthritis the recommended starting and maintenance oral dose of MELOXICAM tablets is 7.5 mg once daily. Some patients may receive additional benefit by increasing the dose to 15 mg once daily.

2.3 Rheumatoid Arthritis

For the relief of the signs and symptoms of rheumatoid arthritis, the recommended starting and maintenance oral dose of MELOXICAM tablets is 7.5 mg once daily. Some patients may receive additional benefit by increasing the dose to 15 mg once daily.

2.4 Juvenile Rheumatoid Arthritis (JRA) Pauciarthral and Polyarthral Course
For the treatment of juvenile rheumatoid arthritis, the recommended oral dose of MELOXICAM tablets is 7.5 mg once daily in children who weigh ≥60 kg. There are no additional benefits demonstrated by increasing the dose above 7.5 mg in clinical trials. MELOXICAM tablets should not be used in children who weigh <60 kg.

2.5 Renal Impairment

The use of MELOXICAM tablets in subjects with severe renal impairment is not recommended.
In patients on hemodialysis, the maximum dosage of MELOXICAM tablets is 7.5 mg per day [see Clinical Pharmacology (12.2)].

2.6 Non-Interchangeability with Other Formulations of Meloxicam

MELOXICAM tablets have not shown equivalent systemic exposure to other approved formulations of oral meloxicam. Therefore, MELOXICAM tablets are not interchangeable with other formulations of oral meloxicam products even if the total meloxicam strength is the same. Do not substitute similar dose strengths of MELOXICAM tablets with other formulations of oral meloxicam product.

3 DOSEAGE FORMS AND STRENGTHS

MELOXICAM Tablets USP:
• 7.5 mg: Light yellow, round flat beveled edged, tablet with U & L debossed on one side and 75 debossed centrally on the other side.
• 15 mg: Light yellow, capsule shaped, biconvex, tablet with U & L debossed on one side and 15 debossed centrally on the other side.

4 CONTRAINDICATIONS

MELOXICAM tablets are contraindicated in the following patients:
• Known hypersensitivity (e.g., anaphylactic reactions and serious skin reactions) to meloxicam or any components of the drug product [see Warnings and Precautions (5.1, 5.9)].
• History of asthma, urticaria, or other allergic-type reactions after taking aspirin or other NSAIDs. Severe, sometimes fatal, anaphylactic reactions to NSAIDs have been reported in such patients [see Warnings and Precautions (5.1, 5.6)].

- In the setting of coronary artery bypass graft (CABG) surgery [see Warnings and Precautions (5.2)]

5 WARNINGS AND PRECAUTIONS

5.1 Cardiovascular Thrombotic Events

Clinical trials of several COX-2 selective and nonselective NSAIDs of up to three years duration have shown an increased risk of serious cardiovascular (CV) thrombotic events, including myocardial infarction (MI) and stroke, which can be fatal. Based on available data, it is unclear that the risk for CV thrombotic events is similar for all NSAIDs. The relative increase in serious CV thrombotic events over baseline conferred by NSAIDs use appears to be similar in those with and without known CV disease or risk factors for CV disease. However, patients with known CV disease or risk factors had a higher absolute incidence of excess serious CV thrombotic events, due to their increased baseline risk. Some observational studies found that the increased risk of serious CV thrombotic events began as early as the first weeks of treatment. The increase in CV thrombotic risk has been observed most consistently at higher doses.

To minimize the potential risk for an adverse CV event in NSAID-treated patients, use the lowest effective dose for the shortest duration possible. Physicians and patients should remain alert for the development of such events, throughout the acute treatment course, even in the absence of previous CV symptoms. Patients should be informed about the symptoms of serious CV events and the steps to take if they occur.

There is no consistent evidence that concurrent use of aspirin mitigates the increased risk of serious CV thrombotic events associated with NSAID use. The concurrent use of aspirin and an NSAID, such as meloxicam, increases the risk of serious cardiovascular (CV) events [see Warnings and Precautions (5.2)].

Open-Label Comparative Active Patient-Controlled Study

Two large, controlled clinical trials of a COX-2 selective NSAID for the treatment of pain in the first 12-14 days following CABG surgery found an increased incidence of myocardial infarction and stroke. NSAIDs are contraindicated in the setting of CABG [see Contraindications (4)].

Health-Status

Observational studies, conducted in the Danish National Registry, have demonstrated that patients treated with NSAIDs in the post-MI period were at increased risk of reinfarction, CV-related death, and all-cause mortality beginning in the first week of treatment. In this same cohort, the incidence of death in the first year post-MI was 20 per 100 person-years. The absolute risk of death in the first year post-MI was 20 per 100 person-years in non-NSAID exposed patients. Although the absolute risk of death declined somewhat after the first year post-MI, the increased relative risk of death in NSAID users persisted over at least the next four years of follow-up.

Avoid the use of Meloxicam in patients with a recent MI unless the benefits are expected to outweigh the risk of recurrent CV thrombotic events. If Meloxicam is used in patients with a recent MI, monitor patients for signs of cardiac ischemia.

5.2 Gastrointestinal Bleeding, Ulceration, and Perforation

NSAIDs, including meloxicam, can cause serious gastrointestinal (GI) adverse events including ulceration, bleeding, ulceration, and perforation of the esophagus, stomach, and small intestine, or large intestine, which can be fatal. These serious adverse events can occur at any time, with or without warning symptoms, in patients treated with NSAIDs. Only one in five patients who develop a serious upper GI adverse event on NSAID therapy is symptomatic. Upper GI ulcers, gross bleeding, or perforation caused by NSAIDs occur in approximately 1% of patients treated for 3-6 months, and in about 2-4% of patients treated for one year. However, even short-term NSAID therapy is not without risk.

Risk Factors for GI Bleeding, Ulceration, and Perforation

Patients with a prior history of peptic ulcer disease and/or GI bleeding who used NSAIDs had a greater (up to 10-fold) increased risk for developing a GI bleed compared to patients without these risk factors. Other factors that increase the risk of GI bleeding in patients treated with NSAIDs include longer duration of NSAID therapy; concomitant use of oral corticosteroids, aspirin, anticoagulants, or selective serotonin reuptake inhibitors (SSRIs); smoking; use of alcohol; older age; and poor general health status. Most postmarketing reports of fatal GI events occurred in elderly or debilitated patients. Additionally, patients with advanced liver disease and/or coagulopathy are at increased risk for GI bleeding.

Strategies to Minimize the GI Risks in NSAID-Treated Patients

- Use the lowest effective dosage for the shortest possible duration.
- Avoid administration of more than one NSAID at a time.
- Avoid use in patients of higher risk unless benefits are expected to outweigh the increased risk of bleeding. For such patients, as well as those with active GI bleeding, consider alternate therapies other than NSAIDs.
- Remain alert for signs and symptoms of GI ulceration and bleeding during NSAID therapy.
- If a serious adverse event is suspected, promptly initiate evaluation and treatment, and discontinue Meloxicam until a serious GI adverse event is ruled out.
- In the setting of concomitant use of low-dose aspirin for cardiac prophylaxis, monitor patients more closely for evidence of GI bleeding [see Drug Interactions (7)].

5.3 Hepatotoxicity

Elevations of ALT or AST three or more times the upper limit of normal (ULN) have been reported in approximately 1% of NSAID-treated patients in clinical trials. In addition, rare, sometimes fatal, cases of severe hepatotoxicity, including fulminant hepatitis, liver necrosis, and hepatic failure have been reported.

Elevations of ALT or AST (less than three times ULN) may occur in up to 15% of patients treated with NSAIDs, including meloxicam.

Inform patients of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, diarrhea, pruritus, jaundice, right upper quadrant tenderness, and "flu-like" symptoms). If clinical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., erythema, rash, etc.), discontinue meloxicam immediately, and perform a clinical evaluation of the patient [see Use in Specific Populations (6.5) and Clinical Pharmacology (12.3)].

5.4 Hypertension

NSAIDs, including Meloxicam, can lead to new onset or worsening of preexisting hypertension, either of which may contribute to the increased incidence of CV events. Patients taking angiotensin converting enzyme (ACE) inhibitors, thiazide diuretics, or loop diuretics may have impaired response to these therapies when taking NSAIDs [see Drug Interactions (7)].

Monitor blood pressure (BP) during the initiation of NSAID treatment and throughout the course of therapy.

5.5 Heart Failure and Edema

The Coxs and traditional NSAID Trials Collaboration meta-analysis of randomized controlled trials found that an approximately two-fold increase in hospitalizations for heart failure in COX-2 selective treated patients and nonselective NSAID-treated patients compared to placebo-treated patients. In a Danish National Registry study of patients with heart failure, NSAID use increased the risk of MI, hospitalization for heart failure, and death.

Additionally, fluid retention and edema have been observed in some patients treated with NSAIDs. Use of meloxicam may blunt the CV effects of several therapeutic agents used to treat these medical conditions (e.g., diuretics, ACE inhibitors, or angiotensin II receptor blockers [ARBs]) [see Drug Interactions (7)].

Avoid the use of Meloxicam in patients with severe heart failure unless the benefits are expected to outweigh the risk of worsening heart failure. If Meloxicam is used in patients with severe heart failure, monitor patients for signs of worsening heart failure.

5.6 Renal Toxicity and Hypertension

Renal Toxicity

Long-term administration of NSAIDs, including Meloxicam, has resulted in renal papillary necrosis, renal insufficiency, acute renal failure, and other renal injury.

Renal toxicity has also been seen in patients in whom renal prostaglandins have a compensatory role in the maintenance of renal function. In these patients, administration of an NSAID may cause a dose-dependent reduction in prostaglandin formation and, in renal insufficiency, renal blood flow, which may precipitate renal decompensation. Patients at greatest risk of this reaction are those with impaired renal function, dehydration, hypovolemia, heart failure, liver dysfunction, those taking diuretics, ACE inhibitors or ARBs, and the elderly. Discontinuation of NSAID therapy is usually followed by recovery to the pretreatment state.

The renal effects of Meloxicam may hasten the progression of renal dysfunction in patients with preexisting renal disease. Because some Meloxicam metabolites are excreted by the kidney, monitor patients for signs of worsening renal function.

Correct volume status in dehydrated or hypovolemic patients prior to initiating Meloxicam. Monitor renal function in patients with renal or hepatic impairment, heart failure, dehydration, or hypovolemia during use of Meloxicam [see Drug Interactions (7)].

No information is available from controlled clinical studies regarding the use of Meloxicam in patients with advanced renal disease. Avoid the use of Meloxicam in patients with advanced renal disease unless the benefits are expected to outweigh the risk of worsening renal function. If Meloxicam is used in patients with advanced renal disease, monitor patients for signs of worsening renal function [see Clinical Pharmacology (12.3)].

Hypertension

In clinical trials, in serum potassium concentration. Including hypertensives, have been reported with use of NSAIDs, even in some patients without renal impairment. In patients with normal renal function, these effects have been attributed to a hyperrenemic-hypochloremic state.

5.7 Anaphylactic Reactions

Meloxicam has been associated with anaphylactic reactions in patients with and without known hypersensitivity to meloxicam and in patients with aspirin-sensitive asthma [see Contraindications (4) and Warnings and Precautions (5.8)].

Seek emergency help if an anaphylactic reaction occurs.

5.8 Exacerbation of Asthma Related to Aspirin Sensitivity

A subgroup of patients with asthma may have aspirin-sensitive asthma which may include chronic rhinosinusitis complicated by nasal polyps; severe, potentially fatal bronchospasm; and/or intolerance to aspirin and other NSAIDs. Because cross-reactivity between aspirin and other NSAIDs has been reported in such aspirin-sensitive patients, Meloxicam is contraindicated in patients with this form of aspirin sensitivity [see Contraindications (4)]. When Meloxicam is used in patients with preexisting asthma (without known aspirin sensitivity), monitor patients for changes in the signs and symptoms of asthma.

5.9 Serious Skin Reactions

NSAIDs, including meloxicam, can cause serious skin adverse reactions such as cutaneous vasculitis, systemic drug eruption (SDE), and toxic epidermal necrolysis (TEN), which can be fatal. These serious events may occur without warning. Inform patients about the signs and symptoms of serious skin reactions, and to discontinue the use of Meloxicam at the first appearance of skin rash or any other sign of hypersensitivity. Meloxicam is contraindicated in patients with previous serious skin reactions to NSAIDs [see Contraindications (4)].

5.10 Premature Closure of Fetal Ductus Arteriosus

Meloxicam may cause premature closure of the fetal ductus arteriosus. Avoid use of NSAIDs, including Meloxicam, in pregnant women starting at 30 weeks of gestation (third trimester) [see Use in Specific Populations (6.3)].

5.11 Hematologic Toxicity

Anemia has occurred in NSAID-treated patients. This may be due to occult or gross blood loss, fluid retention, or an irreversibly decreased effect on erythropoiesis. If a patient treated with Meloxicam has any signs or symptoms of anemia, monitor hemoglobin or hematocrit.

NSAIDs, including Meloxicam, may increase the risk of bleeding events. Co-morbid conditions such as coagulation disorders or concomitant use of warfarin, other anticoagulants, antiplatelet agents (e.g., aspirin), serotonin reuptake inhibitors (SRIs), and selective serotonin reuptake inhibitors (SSRIs) may increase this risk. Monitor these patients for signs of bleeding [see Drug Interactions (7)].

5.12 Masking of Inflammation and Fever

The pharmacological activity of Meloxicam in reducing inflammation, and possibly fever, may obscure the utility of diagnostic signs in detecting infections.

5.13 Laboratory Monitoring

Because serious GI bleeding, hepatotoxicity, and renal injury can occur without warning symptoms or signs, consider monitoring patients on long-term NSAID treatment with a CBC and a chemistry profile periodically [see Warnings and Precautions (5.1, 5.2, 5.3, 5.4, 5.6, 5.7, 5.8, 5.9, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 6.11, 6.12, 6.13, 6.14, 6.15, 6.16, 6.17, 6.18, 6.19, 6.20, 6.21, 6.22, 6.23, 6.24, 6.25, 6.26, 6.27, 6.28, 6.29, 6.30, 6.31, 6.32, 6.33, 6.34, 6.35, 6.36, 6.37, 6.38, 6.39, 6.40, 6.41, 6.42, 6.43, 6.44, 6.45, 6.46, 6.47, 6.48, 6.49, 6.50, 6.51, 6.52, 6.53, 6.54, 6.55, 6.56, 6.57, 6.58, 6.59, 6.60, 6.61, 6.62, 6.63, 6.64, 6.65, 6.66, 6.67, 6.68, 6.69, 6.70, 6.71, 6.72, 6.73, 6.74, 6.75, 6.76, 6.77, 6.78, 6.79, 6.80, 6.81, 6.82, 6.83, 6.84, 6.85, 6.86, 6.87, 6.88, 6.89, 6.90, 6.91, 6.92, 6.93, 6.94, 6.95, 6.96, 6.97, 6.98, 6.99, 7.00)].

6 ADVERSE REACTIONS

The following adverse reactions are discussed in greater detail in other sections of the labeling:

- Cardiovascular Thrombotic Events [see Boxed Warning and Warnings and Precautions (5.1)]
- GI Bleeding, Ulceration, and Perforation [see Boxed Warning and Warnings and Precautions (5.2)]
- Hepatotoxicity [see Warnings and Precautions (5.3)]
- Hypertension [see Warnings and Precautions (5.4)]
- Heart Failure and Edema [see Warnings and Precautions (5.5)]
- Renal Toxicity and Hypertension [see Warnings and Precautions (5.6)]
- Anaphylactic Reactions [see Warnings and Precautions (5.7)]
- Serious Skin Reactions [see Warnings and Precautions (5.8)]
- Hematologic Toxicity [see Warnings and Precautions (5.11)]

6.1 Clinical Trial Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trial of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

Adults

Onset/Time to Onset and Duration of Effects

The Meloxicam Phase 2/3 clinical trial database includes 10,122 COX-2 patients and 1013 RA patients treated with Meloxicam 7.5 mg/day, 3295 OA patients and 1351 RA patients treated with Meloxicam 15 mg/day. Meloxicam in these studies was administered for patients for at least 6 months and to 312 patients for at least one year. Approximately 10,500 of these patients were treated in two placebo- and/or active-controlled observational trials and 233 of these patients were treated in two 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.

A 12-week multicenter, double-blind, randomized trial was conducted in patients with osteoarthritis of the knee or hip to compare the efficacy and safety of Meloxicam with placebo and with an active control. The 12-week multicenter, double-blind, randomized trial was conducted in patients with rheumatoid arthritis to compare the efficacy and

Safety of Meloxicam with placebo.

Table 1a depicts adverse events that occurred in ≥2% of the Meloxicam treatment group in a 12-week placebo- and active-controlled osteoarthritis trial.

Table 1b depicts adverse events that occurred in ≥2% of the Meloxicam treatment group in a 12-week placebo-controlled rheumatoid arthritis trial.

Table 1a Adverse Events (%) Occurring in ≥2% of Meloxicam Patients in a 12-Week Osteoarthritis Placebo- and Active-Controlled Trial. Table with 5 columns: Placebo, Meloxicam 7.5 mg daily, Meloxicam 15 mg daily, Diclofenac 50 mg. Rows include Gastrointestinal, Musculoskeletal, Respiratory, etc.

Table 1b Adverse Events (%) Occurring in ≥2% of Meloxicam Patients in a 12-Week Rheumatoid Arthritis Placebo-Controlled Trial

Table with 5 columns: Placebo, Meloxicam 7.5 mg daily, Meloxicam 15 mg daily, Diclofenac 50 mg. Rows include Gastrointestinal, Musculoskeletal, Respiratory, etc.

The adverse events that occurred with meloxicam in ≥2% of patients treated short-term (4 to 6 weeks) and long-term (6 months) in active-controlled osteoarthritis trials are presented in Table 2.

Table 2 Adverse Events (%) Occurring in ≥2% of Meloxicam Patients in 4 to 6 Weeks and 6 Months Active-Controlled Osteoarthritis Trials

Table with 5 columns: Placebo, Meloxicam 7.5 mg daily, Meloxicam 15 mg daily, Diclofenac 50 mg. Rows include Gastrointestinal, Musculoskeletal, Respiratory, etc.

Higher doses of meloxicam (22.5 mg and greater) have been associated with an increased risk of serious GI events; therefore, the daily dose of meloxicam should not exceed 15 mg.

Indications

Finger/Toe and Polyarticular Course Symptomatic Rheumatoid Arthritis (RA)

Three hundred and eighty-seven patients with psuedotumor and polyarticular course RA were entered to Meloxicam with doses ranging from 10.125 to 175 mg/day per day in three clinical trials. These studies consisted of two 12-week multicenter, double-blind, randomized trials with a 12-week open-label extension and one with a 40-week extension and one 1-year open-label PK study.

The following is a list of adverse drug reactions occurring in $\geq 2\%$ of patients receiving meloxicam in clinical trials involving approximately 16,200 patients.

Table with 2 columns: Body as a Whole, Cardiovascular, Central and Peripheral Nervous System, etc. Lists various adverse effects like allergic reaction, face edema, fatigue, fever, hot flashes, malaise, syncope, weight decrease, weight increase, etc.

6.2 Post Marketing Experience

The following adverse reactions have been identified during post approval use of Meloxicam. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

6.5 DRUG INTERACTIONS

See Table 3 for clinically significant drug interactions with meloxicam. See also Warnings and Precautions (5.2, 5.6, 5.12) and Clinical Pharmacology (12.3).

Drugs that Interact with Meloxicam

Table with 2 columns: Drug, Interaction. Lists drugs like Aspirin, NSAIDs, ACE Inhibitors, Anticoagulants, etc. and their interactions with Meloxicam.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Use of NSAIDs, including meloxicam, during the third trimester of pregnancy increases the risk of premature closure of the fetal ductus arteriosus.

greater, respectively than the MRHD based on NSA comparison) when administered throughout organogenesis.

Oral administration of meloxicam to pregnant rats during late gestation through lactation increased the incidence of dystocia, delayed parturition, and decreased offspring survival. Meloxicam doses of 0.125 mg/kg/day or greater (0.08 times MRHD based on NSA comparison).

8.2 Lactation

Risk Summary

There are no human data available on whether meloxicam is present in human milk, or on its effects on breastfed infants, or on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for meloxicam and any potential adverse effects on the breastfed infant from the meloxicam or from the underlying maternal condition.

Data

Animal Data

Meloxicam was present in the milk of lactating rats at concentrations higher than those in plasma.

8.3 Females and Males of Reproductive Potential

Infertility

Females:

Based on the mechanism of action, the use of prostaglandin-mediated NSAIDs, including meloxicam, may delay or prevent rupture of ovarian follicles, which has been associated with reversible infertility in some women. Published animal studies have shown that inhibition of prostaglandin synthesis inhibits the potential to deliver prostaglandin-mediated follicular rupture required for ovulation. Small studies in women treated with NSAIDs have also shown a lower rate of ovulation. In contrast to inhibition of NSAIDs, including meloxicam, in women who have difficulties conceiving or who are undergoing investigation of infertility.

8.4 Pediatric Use

The safety and effectiveness of meloxicam in pediatric (PA) patients from 2 to 17 years of age has been evaluated in three controlled clinical studies (see Dosage and Administration (2.3), Adverse Reactions (6.1) and Clinical Studies (14.2)).

8.5 Geriatric Use

Elderly patients, compared to younger patients, are at greater risk for NSAID-associated serious cardiovascular, gastrointestinal, and/or renal adverse reactions. If the anticipated benefit for the elderly patient outweighs these potential risks, start dosing at the low end of the dosing range, and monitor patients for adverse effects (see Warnings and Precautions (5.1, 5.2, 5.4, 5.6, 5.13)).

8.6 Hepatic Impairment

No dose adjustment is necessary in patients with mild to moderate hepatic impairment. Patients with severe hepatic impairment have not been adequately studied. Since meloxicam is a significantly metabolized in the liver and hepatotoxicity may occur, use meloxicam with caution in patients with hepatic impairment (see Warnings and Precautions (5.3) and Clinical Pharmacology (12.3)).

8.7 Renal Impairment

No dose adjustment is necessary in patients with mild to moderate renal impairment. Patients with severe renal impairment have not been studied. The use of Meloxicam in subjects with severe renal impairment is not recommended. In patients on hemodialysis, meloxicam should not exceed 15 mg per day. Meloxicam is not dialyzable (see Dosage and Administration (2.1) and Clinical Pharmacology (12.3)).

10 OVERDOSAGE

Symptoms following acute NSAID overdosages have been typically limited to lethargy, anorexia, gastric vomiting, and epigastric pain, which have been generally responsive with supportive care. Gastrointestinal bleeding has occurred. Hypertension, acute renal failure, respiratory depression, and coma have occurred, but were rare (see Warnings and Precautions (5.1, 5.2, 5.4, 5.6)).

Manage patients with symptomatic and supportive care following an NSAID overdose. There are no specific antidotes. Consider emesis and/or activated charcoal (60 to 100 grams in adults, 1 to 2 gram per kg of body weight in pediatric patients) and 1% aqueous sodium bicarbonate in symptomatic patients less than four hours of ingestion or in patients with a large overdose (5 to 10 times the recommended dosage). Forced diuresis, dialysis/continuous urine, hemodialysis, or hemoperfusion may not be useful due to high protein binding.

There is limited experience with meloxicam overdosage. Cholestyramine is known to accelerate the clearance of meloxicam. Accelerated removal of meloxicam by 4 oral doses of cholestyramine given three times a day was demonstrated in a clinical trial. Administration of cholestyramine may be useful following an overdose.

For additional information about overdose treatment, call a poison control center (1-800-222-1222).

11 DESCRIPTION

Meloxicam Tablets USP are a nonsteroidal anti-inflammatory drug (NSAID). Each tablet contains 7.5 mg or 15 mg meloxicam for oral administration. Meloxicam is chemically designated as 4-(hydroxy-2-methyl-4-[(5-methyl-2-thienyl)-2-1H-2-benzofuran-3-yl]-carbamoyl)-L-isoleucine, the molecular weight is 331.4. Its empirical formula is C₁₉H₁₉N₃O₅ and it has the following structural formula:



Meloxicam is a pale yellow solid, practically insoluble in water, with higher solubility observed at strong acidic and basic pH. It is a very slightly soluble in methanol. Meloxicam has an apparent partition coefficient (log P_{app}) = 0.1 in octanol/buffer pH 7.4. Meloxicam has pKa values of 1.1 and 4.2.

Meloxicam is available as a tablet for oral administration containing 7.5 mg or 15 mg meloxicam.

The inactive ingredients in Meloxicam tablets USP include colloidal silicon dioxide, croscellose, lactose monohydrate, magnesium stearate, microcrystalline cellulose, polydioxane and sodium citrate dihydrate.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Meloxicam has analgesic, anti-inflammatory, and antipyretic properties. The mechanism of action of meloxicam, like that of other NSAIDs, is not completely understood but involves inhibition of cyclooxygenase (COX-1 and COX-2).

Meloxicam is a potent inhibitor of prostaglandin synthesis in vitro. Meloxicam concentrations reached during therapy have produced in vivo effects. Prostaglandins sensitize afferent nociceptors and potentiate the action of bradykinin by inducing pain animal models. Prostaglandins are mediators of inflammation. Because meloxicam is an inhibitor of prostaglandin synthesis, its mode of action may be due to a decrease of prostaglandins in peripheral tissues.

12.3 Pharmacokinetics

Absorption

The absolute bioavailability of meloxicam capsules was 89% following a single oral dose of 80 mg compared with 30 mg IV dose. In the following single intravenous dose, dose proportional pharmacokinetics were shown in the range of 5 mg to 60 mg. After multiple oral administration of meloxicam capsules, the mean peak concentration over the range of 7.5 mg to 15 mg. Mean C_{max} was achieved within four to five hours after a 7.5 mg meloxicam tablet was taken under fasting conditions, indicating a prolonged drug absorption. With multiple dosing, steady-state concentrations were reached by Day 5. A second meloxicam concentration peak occurs around 12 to 14 hours post-dose suggesting bilary recycling.

Meloxicam capsules have been shown to be bioequivalent to Meloxicam tablets.

Pharmacokinetic Parameters (%CV)	Steady State		Single Dose	
	7.5 mg Tablets	15 mg Capsules	7.5 mg Capsules	15 mg Capsules
n	8	8	8	12
t _{1/2}	(h)	2.7(59)	3.1(49)	4.9(58)
C _{max}	(ng/mL)	4.1(81)	7.9(77)	4.6(65)
C _{min}	(ng/mL)	0.1(45)	0.1(43)	0.1(50)
AUC	(h·ng/mL)	8.6(22)	16.1(78)	10.6(83)
Cl _R	(mL/min)	8.6(22)	16.1(78)	10.6(83)
Cl _T	(L/h)	15.1(42)	29.4(89)	21.1(59)

The parameters values in the table are from venous studies. Meloxicam high plasma concentrations are observed in all patients. \ddagger V ZT = mean(AUC)₀₋₂₄.

Food and Antacid Effects

Administration of meloxicam capsules following a high fat breakfast (75 g of fat resulted in mean peak drug levels (i.e., C_{max}) being increased by approximately 22% while the extent of absorption (AUC) was unchanged. The time to maximum concentration (T_{max}) was achieved between 5 and 6 hours. No pharmacokinetic interaction was detected with concomitant administration of antacids. Based on these results, meloxicam can be administered without regard to timing of meals or concomitant administration of antacids.

Distribution

The mean volume of distribution (V_d) of meloxicam is approximately 10 L. Meloxicam is ~99.4% bound to human plasma proteins (primarily albumin) within the therapeutic dose range. The fraction of protein binding is independent of meloxicam concentration over the clinically relevant concentration range, but decreases to ~99% in patients with renal disease. Meloxicam penetration into tissues not bound to albumin is less than 10%. Following a radiolabeled dose, over 90% of the radioactivity detected in the plasma was present as unchanged meloxicam.

Meloxicam concentrations in synovial fluid, after a single oral dose, range from 40% to 50% of those in plasma. The free fraction in synovial fluid is 2.2 times higher than in plasma, due to the lower albumin content in synovial fluid as compared to plasma. The significance of this penetration is unknown.

Elimination

Meloxicam is extensively metabolized in the liver. Meloxicam metabolites include 5'-carbamoyl meloxicam (80% of dose), from N-450 mediated metabolism formed by oxidation of an intermediate metabolite 5'-hydroxymethyl meloxicam which is also excreted to a lesser extent (9% of dose), *in vitro* studies indicate that CYP2C9 (hydroxylase P450 metabolizing enzyme) plays an important role in the metabolic pathway with a minor contribution of the CYP3A4 isozyme. Patients' peroxisome activity is probably responsible for the other two metabolites which account for 10% and 4% of the administered dose, respectively. All the four metabolites are not known to have any *in vivo* pharmacological activity.

Excretion

Meloxicam excretion is predominantly in the form of metabolites, and occurs to equal extent in the urine and feces. Single doses of the unchanged parent compound are excreted in the urine (0.2%) and feces (1.8%). The extent of the urinary excretion was confirmed for unchanged meloxicam. Single doses of 7.5 mg, 15 mg, and 30 mg were found in urine in the form of meloxicam, and the 5'-hydroxymethyl and 5'-carbamoyl metabolites, respectively. There is significant bilary and/or enteral excretion of the drug. This was demonstrated when oral administration of cholestyramine following a single IV dose of meloxicam decreased the AUC of meloxicam by 50%.

The mean elimination half-life (t_{1/2}) ranges from 15 hours to 20 hours. The elimination half-life is constant across dose levels indicating linear metabolism within the therapeutic dose range. Plasma clearance ranges from 7 to 9 mL/min.

Safety Population

Geriatric

Pediatric

After single (0.25 mg/kg) dose administration and after achieving steady state (0.375 mg/kg/day), there was a general trend of approximately 30% lower exposure in younger patients (2 to 6 years old) as compared to the older patients (7 to 16 years old). The older patients had meloxicam exposures similar to single dose or slightly reduced (slightly lower AUC) when compared to the older patients, when using pediatric capsules. In a population pharmacokinetic analysis, the observed differences in AUC and C_{max} were explained by differences in body weight and renal function.

In a covariate analysis, utilizing population pharmacokinetics body-weight, but not age, was the single predictive covariate for differences in the meloxicam apparent oral plasma clearance. The body weight specific meloxicam apparent oral clearance values were comparable between the elderly population and pediatric subjects.

The pharmacokinetics of meloxicam in pediatric patients under 2 years of age have not been investigated.

Geriatric

Elderly males (≥65 years of age) exhibited meloxicam plasma concentrations and steady-state pharmacokinetics similar to young males. Elderly females (≥65 years of age) had a 4% higher AUC₀₋₂₄ and 32% higher C_{max} as compared to younger females (≤65 years of age) after both single and multiple dosing. Despite the increased total concentrations in the elderly females, the observed event profile was comparable for both elderly patient populations. A smaller free fraction was found in elderly female patients in comparison to elderly male patients.

Geriatric

Young females exhibited slightly lower plasma concentrations relative to young males. After single doses of 7.5 mg meloxicam, the mean elimination half-life was 18.5 hours for the female group as compared to 23.4 hours for the male group. At steady state, the data were similar (17.9 hours vs. 21.4 hours). The pharmacokinetic difference due to gender is likely to be of BSC clinical importance. There was history of pharmacokinetics and no appreciable difference in the C_{min} or T_{max} across genders.

Hepatic Impairment

Following a single 15 mg dose of meloxicam there was no marked difference in plasma concentrations in patients with mild (Child-Pugh Class I) or moderate (Child-Pugh Class II) hepatic impairment compared to healthy volunteers. Protein binding of meloxicam was not affected by hepatic impairment. No dosage adjustment is necessary in patients with mild to moderate hepatic impairment. Patients with severe hepatic impairment (Child-Pugh Class III) have not been adequately studied (see Warnings and Precautions (5.3) and Use in Specific Populations (6.6)).

Renal Impairment

Meloxicam pharmacokinetics have been investigated in subjects with mild to moderate

renal impairment. Total drug plasma concentrations of meloxicam decreased and total clearance of meloxicam increased with the degree of renal impairment while free AUC values were similar in all groups. The higher meloxicam clearance in subjects with renal impairment may be due to increased fraction of unbound meloxicam which is available for hepatic metabolism and subsequent excretion. No dosage adjustment is necessary in patients with mild to moderate renal impairment. Patients with severe renal impairment have not been adequately studied. The use of Meloxicam in subjects with severe renal impairment is not recommended [see Dosage and Administration (2.3), Warnings and Precautions (5.6) and Use in Specific Populations (8.7)].

Hemodialysis

Following a single dose of meloxicam, the free C_{max} plasma concentrations were higher in patients with renal failure on chronic hemodialysis (1% free fraction) in comparison to healthy volunteers (0.3% free fraction). Hemodialysis did not lower the total drug concentration in plasma; therefore, additional doses are not necessary after hemodialysis. Meloxicam is not dialyzable [see Dosage and Administration (2.2) and Use in Specific Populations (8.7)].

Drug Interactions

Aspirin: When NSAIDs were administered with aspirin, the protein binding of NSAIDs was reduced, although the clearance of free NSAID was not altered. When Meloxicam is administered with aspirin (1000 mg three times daily to healthy volunteers, it tended to increase the C_{max} (10%) and C_{min} (4%) of meloxicam. The clinical significance of the interaction is not known. See Table 3 for clinically significant drug interactions of NSAIDs with aspirin [see Drug Interactions (7)].

Cholestyramine: Pretreatment for four days with cholestyramine significantly increased the clearance of meloxicam by 50%. This resulted in a decrease in C_{max} from 18.3 hours to 12.5 hours, and a 35% reduction in AUC. This suggests the existence of a reabsorption pathway for meloxicam in the gastrointestinal tract. The clinical relevance of this interaction has not been established.

Cimetidine: Concurrent administration of 300 mg cimetidine four times daily did not alter the single-dose pharmacokinetics of 30 mg meloxicam.

Digoxin: Meloxicam 15 mg once daily for 7 days did not alter the plasma concentration profile of digoxin after β -adrenergic stimulation for 7 days at clinical doses. In vitro binding found no protein binding drug interaction between digoxin and meloxicam.

Lithium: In a study conducted in healthy subjects, mean pre-dose lithium concentration and AUC were increased by 25% in subjects receiving lithium doses ranging from 804 to 1072 mg twice daily with meloxicam 15 mg QD every day as compared to subjects receiving lithium alone [see Drug Interactions (7)].

Methotrexate: A study in 13 rheumatoid arthritis (RA) patients evaluated the effects of multiple doses of meloxicam on the pharmacokinetics of methotrexate taken weekly. Meloxicam did not have a significant effect on the pharmacokinetics of single doses of methotrexate. In vitro methotrexate did not displace meloxicam from its human serum binding sites [see Drug Interactions (7)].

Warfarin: The effect of meloxicam on the anticoagulant effect of warfarin was studied in a group of healthy subjects receiving daily doses of warfarin that produced an INR (International Normalized Ratio) between 1.2 and 1.6. In these subjects, meloxicam did not alter warfarin pharmacokinetics and the average anticoagulant effect of warfarin as determined by prothrombin time. However, one subject showed an increase in INR from 1.5 to 2.1. Caution should be used when administering Meloxicam with warfarin since subjects on warfarin may experience changes in INR and an increased risk of bleeding complications when a new medication is introduced [see Drug Interactions (7)].

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

There was no increase in tumor incidence in long-term carcinogenicity studies in rats (104 weeks) and mice (99 weeks) administered meloxicam at oral doses up to 0.8 mg/kg/day in rats and up to 8.0 mg/kg/day in mice to 0.5 and 2.0 times, respectively, the maximum recommended human dose (MRHD) of 15 mg/day Meloxicam based on body surface area (BSA) comparison.

Mutagenesis

Meloxicam was not mutagenic in an Ames assay or clastogenic in a chromosome aberration assay with human lymphocytes and an in vivo micronucleus test in mouse bone marrow.

Impairment of Fertility

Meloxicam did not impair male and female fertility in rats at oral doses up to 8 mg/kg/day in males and 5 mg/kg/day in females up to 1.8- and 1.2 times greater, respectively, than the MRHD based on BSA comparison.

14 CLINICAL STUDIES

14.1 Osteoarthritis and Rheumatoid Arthritis

The use of Meloxicam for the treatment of the signs and symptoms of osteoarthritis of the knee and hip was evaluated in a 12-week, double-blind, controlled trial. Meloxicam (7.5 mg, 15 mg, and 15 mg daily) was compared to placebo. The four primary endpoints were investigator global assessment, patient global assessment, patient pain assessment, and total WOMAC score in self-administered questionnaire addressing pain, function, and stiffness. Patients on Meloxicam 7.5 mg daily and Meloxicam 15 mg daily showed significant improvement in each of these endpoints compared with placebo.

The use of Meloxicam for the management of signs and symptoms of osteoarthritis was evaluated in an double-blind, active-controlled trial, outside the U.S., ranging from 4 weeks to 1 month's duration. In these trials, the efficacy of Meloxicam, in doses of 7.5 mg/day and 15 mg/day, was comparable to artemon 20 mg/day and celecoxib 100 mg/day and consistent with the efficacy seen in the U.S. trial.

The use of Meloxicam for the treatment of the signs and symptoms of rheumatoid arthritis was evaluated in a 12-week, double-blind, controlled, multinational trial. Meloxicam (7.5 mg, 15 mg, and 22.5 mg daily) was compared to placebo. The primary endpoint in this study was the ACR20 response rate, a composite measure of clinical, laboratory, and functional measures of the response. Patients receiving Meloxicam 7.5 mg and 15 mg daily showed significant improvement in the primary endpoint compared with placebo. No incremental benefit was observed with the 22.5 mg dose compared to the 15 mg dose.

14.2 Juvenile Rheumatoid Arthritis (JRA) Pauciarthral and Polyarthral Course

The use of Meloxicam for the treatment of the signs and symptoms of pauciarthral or polyarthral course juvenile Rheumatoid Arthritis in patients 2 years of age and older was evaluated in two 12-week, double-blind, parallel-arm, active-controlled trials.

Both studies included three arms: naproxen and two doses of meloxicam. In both studies, meloxicam dosing began at 1.25 mg/kg/day (7.5 mg maximum) or 0.25 mg/kg/day (15 mg maximum), and naproxen dosing began at 10 mg/kg/day. One study used these doses throughout the 12-week dosing period, while the other incorporated a titration after 4 weeks to doses of 0.25 mg/kg/day and 0.375 mg/kg/day (22.5 mg maximum) of meloxicam and 18 mg/kg/day of naproxen.

The efficacy analysis used the ACR Pediatric 30 responder definition, a composite of parent and investigator assessments, counts of active joints and joints with limited range of motion, and erythrocyte sedimentation rate. The proportion of responders were similar in all three groups in both studies, and no difference was observed between the meloxicam dose groups.

16 HOW SUPPLIED/STORAGE AND HANDLING

Meloxicam tablets USP are available as a light yellow, round, uncoated tablet containing meloxicam 7.5 mg. The 7.5 mg tablet is imprinted with letter "U" on one side and tablet code 7.5 on the other side.

Meloxicam Tablets USP 7.5 mg are available as follows:

NDC 55289-272-14; Bottles of 14

NDC 55289-272-20; Bottles of 20

NDC 55289-272-30; Bottles of 30

NDC 55289-272-60; Bottles of 60

NDC 55289-272-90; Bottles of 90

Dispense Here as 30 Pkg 25 (48 Pkg 90 77 Pkg) (See USP Controlled Room Temperature), Keep Meloxicam Tablets USP in a dry place.

Dispense tablets in a light container.

Keep this and all medications out of the reach of children.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide) that accompanies each prescription dispensed.

Additional Medication Guides can be obtained by calling Unichem at 1-866-562-4614.

Inform patients, families or their caregivers of the following information before initiating therapy with an NSAID and periodically during the course of ongoing therapy.

Cardiovascular Thrombotic Events

Advise patients to be alert for the symptoms of cardiovascular thrombotic events, including chest pain, shortness of breath, weakness, or slurring of speech, and to report any of these symptoms to their healthcare provider immediately [see Warnings and Precautions (5.5)].

Gastrointestinal Bleeding, Ulceration, and Perforation

Advise patients to report symptoms of ulcerations and bleeding, including epigastric pain, dyspepsia, nausea, and hematemesis to their healthcare provider. In the setting of ulcerations or GI bleed, aspirin is contraindicated. Advise patients of the increased risk for the signs and symptoms of GI bleeding [see Warnings and Precautions (5.3)].

Hepatotoxicity

Inform patients of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, diarrhea, pruritus, jaundice, right upper quadrant tenderness, and "flu-like" symptoms). If these occur, instruct patients to stop Meloxicam tablets and seek immediate medical therapy [see Warnings and Precautions (5.3)].

Heart Failure and Edema

Advise patients to be alert for the symptoms of congestive heart failure including shortness of breath, unexplained weight gain, or edema and to contact their healthcare provider if such symptoms occur [see Warnings and Precautions (5.3)].

Anaphylactic Reactions

Inform patients of the signs of an anaphylactic reaction (e.g., difficulty breathing, swelling of the face or throat). Instruct patients to seek immediate emergency help if these occur [see Contraindications (4) and Warnings and Precautions (5.3)].

Serious Skin Reactions

Advise patients to stop Meloxicam tablets immediately if they develop any type of rash and to contact their healthcare provider as soon as possible [see Warnings and Precautions (5.6)].

Fertile Females

Advise females of reproductive potential who desire pregnancy that NSAIDs, including Meloxicam tablets, may be associated with a reversible delay in ovulation [see Use in Specific Populations (8.3)].

Drug Interactions

Inform pregnant women to avoid use of Meloxicam tablets and other NSAIDs, starting at 20 weeks gestation because of the risk of premature closing of the fetal ductus arteriosus [see Warnings and Precautions (5.10) and Use in Specific Populations (8.1)].

Avoid Concurrent Use of NSAIDs

Inform patients that the concurrent use of Meloxicam tablets with other NSAIDs or salicylates (e.g., effervescent salicylates) is not recommended due to the increased risk of gastrointestinal toxicity, and GI or renal toxicity [see Warnings and Precautions (5.2) and Drug Interactions (7)]. Advise patients that NSAIDs may be present in "over the counter" medications for treatment of colds, fever, or insomnia.

Use of NSAIDs and Low-Dose Aspirin

Inform patients not to use low-dose aspirin concurrently with Meloxicam tablets until they talk to their healthcare provider [see Drug Interactions (7)]. For current prescribing information, call Unichem at 1-866-562-4616.

Manufactured by:

UNICHEM LABORATORIES LTD.

Plasma Ind., Essex,

Plasma, Baraboo, Wis 54651, India

Manufactured for:

Healrock Heights, NJ 07604

07-4-090217

13009858

SPL MEDGUIDE

Medication Guide for Nonsteroidal Anti-inflammatory Drugs (NSAIDs)
What is the most important information I should know about NSAIDs?
Label: Nonsteroidal Anti-inflammatory Drug (NSAID)
NSAIDs can cause serious side effects, including:
• Increased risk of a heart attack or stroke that can lead to death. This risk may happen early in treatment and may increase:
• with increasing doses of NSAIDs.
• with longer use of NSAIDs.
• Do not take NSAIDs right before or after a heart surgery called a coronary artery bypass graft (CABG).
• Avoid taking NSAIDs after a recent heart attack, unless your healthcare provider tells you. You may have an increased risk of another heart attack if you take NSAIDs after a recent heart attack.
• Increased risk of bleeding, ulcers, and tears (perforation) of the esophagus (tube leading from the mouth to the stomach), stomach and intestines.
• anytime during use.
• without warning symptoms.
• that may cause death.
• that history of stomach ulcer or bleeding increases with:
• past history of stomach ulcer or stomach or intestinal bleeding with use of NSAIDs.
• taking medicines called "corticosteroids," "sulfonylureas," "SSRIs," or "SERIs."
• increasing doses of NSAIDs.
• longer use of NSAIDs.
• smoking.
• drinking alcohol.
• other age.

your health
 Advanced liver disease
 Bleeding problems
NSAIDs should only be used:
 if exactly as prescribed
 at the lowest dose possible for your treatment
 for the shortest time possible.

What are NSAIDs?
 NSAIDs are used to treat pain and redness, swelling, and heat (inflammation) from conditions such as different types of arthritis, menstrual cramps, and other types of short-term pain.

Who should take NSAIDs?
Do not take NSAIDs:
 if you have had an asthma attack, hives, or other allergic reaction with aspirin or any other NSAIDs.
 if you have had an asthma attack, hives, or other allergic reaction with aspirin or any other NSAIDs.
 if you have had an asthma attack, hives, or other allergic reaction with aspirin or any other NSAIDs.

Before taking NSAIDs, tell your healthcare provider about all of your medical conditions, including if you:
 have liver or kidney problems
 have high blood pressure
 have asthma
 are pregnant or plan to become pregnant. Talk to your healthcare provider if you are considering taking NSAIDs during pregnancy. You should not take NSAIDs after 29 weeks of pregnancy.
 are breastfeeding or plan to breast feed

Tell your healthcare provider about all of the medicines you take, including prescription or over-the-counter medicines, vitamins or herbal supplements, (NSAIDs) and some other medicines can interact with each other and cause serious side effects. Do not start taking any new medicine without talking to your healthcare provider first.

NSAIDs can cause serious side effects, including:
 NSAIDs can cause serious side effects, including:
 See "What is the most important information I should know about medicines used to treat Osteoarthritis and Inflammatory Drugs (NSAIDs)?"
 • nose or worst high blood pressure
 • heart failure
 • liver problems including liver failure
 • kidney problems including kidney failure
 • low red blood cells (anemia)
 • life-threatening skin reactions
 • life-threatening allergic reactions
 • Other side effects of NSAIDs include: stomach pain, constipation, diarrhea, gas, heartburn, nausea, vomiting, and dizziness.
Get emergency help right away if you get any of the following symptoms:
 • shortness of breath or trouble breathing
 • chest pain
 • weakness in one part or side of your body
 • slurred speech
 • swelling of the face or throat

Stop taking your NSAID and call your healthcare provider right away if you get any of the following symptoms:
 • more tired or weaker than usual
 • dizziness
 • feeling
 • your skin or eyes look yellow
 • indigestion or stomach pain
 • flu-like symptoms
 • joint pain
 • there is blood in your bowel movement or it is black and sticky like tar
 • unusual weight gain
 • skin rash or blisters with fever
 • swelling of the arms, legs, hands and feet

If you take too much of your NSAID, call your healthcare provider or get medical help right away.
 These are not all the possible side effects of NSAIDs. For more information, ask your healthcare provider or pharmacist about NSAIDs.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

Other information about NSAIDs:
 Aspirin is an NSAID but it does not increase the chance of a heart attack. Aspirin can cause bleeding in the stomach, intestines, and intestines. Aspirin can also cause ulcers in the stomach and intestines.
 • Some NSAIDs are sold in lower doses without a prescription (over the counter). Talk to your healthcare provider before using over-the-counter NSAIDs for more than 10 days.

General information about the safe and effective use of NSAIDs:
 Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use NSAIDs for a condition for which it was not prescribed. Do not give NSAIDs to other people, even if they have the same symptoms that you have. It may harm them.

NSAIDs are not safe for everyone.
 You should use more information about NSAIDs, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about NSAIDs that is written for lay people.

Additional Medication Guides can be obtained by calling Unichem at 1-866-362-8443.
 The other Trademarks referenced are owned by third parties not affiliated with Unichem Laboratories Limited.
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 Unichem Laboratories, Inc., NJ 07604
 D&A-092017
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The Medication Guide has been approved by the U.S. Food and Drug Administration.
 Revised: September 2017

PACKAGE LABEL/PRINCIPAL DISPLAY PANEL



MELICOM				
Product Information				
Product Type	ORAL PRESCRIPTION DRUG	Brand Name	MELICOM (Meloxicam)	
Route of Administration	Oral	NDC Number	100-0000-1200	
Active Ingredient/Active Moiety				
MELICOM (MELICOM) (MELICOM) (UNL/UNL/UNL/UNL)	Meloxicam	Strength	120 mg	
Inactive Ingredients				
	Inactive Ingredient	Strength		
MELICOM (MELICOM) (MELICOM) (UNL/UNL/UNL/UNL)				
MELICOM (MELICOM) (MELICOM) (UNL/UNL/UNL/UNL)				
MELICOM (MELICOM) (MELICOM) (UNL/UNL/UNL/UNL)				
MELICOM (MELICOM) (MELICOM) (UNL/UNL/UNL/UNL)				
MELICOM (MELICOM) (MELICOM) (UNL/UNL/UNL/UNL)				
Product Characteristics				
Color	White	Score	None	
Shape	Round	Size	None	
Flavor		Imprint Code	U.L.S.	
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	100-0000-1200	120 mg (MELICOM) (MELICOM) (UNL/UNL/UNL/UNL)	12/08/2017	
2	100-0000-1200	120 mg (MELICOM) (MELICOM) (UNL/UNL/UNL/UNL)	12/08/2017	
3	100-0000-1200	120 mg (MELICOM) (MELICOM) (UNL/UNL/UNL/UNL)	12/08/2017	
4	100-0000-1200	120 mg (MELICOM) (MELICOM) (UNL/UNL/UNL/UNL)	12/08/2017	
5	100-0000-1200	120 mg (MELICOM) (MELICOM) (UNL/UNL/UNL/UNL)	12/08/2017	
6	100-0000-1200	120 mg (MELICOM) (MELICOM) (UNL/UNL/UNL/UNL)	12/08/2017	
7	100-0000-1200	120 mg (MELICOM) (MELICOM) (UNL/UNL/UNL/UNL)	12/08/2017	
8	100-0000-1200	120 mg (MELICOM) (MELICOM) (UNL/UNL/UNL/UNL)	12/08/2017	
9	100-0000-1200	120 mg (MELICOM) (MELICOM) (UNL/UNL/UNL/UNL)	12/08/2017	
10	100-0000-1200	120 mg (MELICOM) (MELICOM) (UNL/UNL/UNL/UNL)	12/08/2017	
Marketing Information				
Marketing Category	Application Number or Monograph	Marketing Start Date	Marketing End Date	
ND	ANDA077907	08/08/2017		

Labeler - JDA Pharmaceuticals, Inc. (15689509)
Registrant - JDA Pharmaceuticals, Inc. (15689509)
Establishment
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