

MELOXICAM: meloxicam Tablet
ActImmud USA, Inc.

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

MELOXICAM Tablets USP, for oral use
Initial U.S. Approval: 2006

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 (5.2).**
- **MELOXICAM tablets are contraindicated in the setting of coronary artery bypass graft (CABG) surgery (5.2).**
- **NSAIDs cause an increased risk of serious gastrointestinal (GI) adverse events including bleeding, ulceration, and perforation of the stomach or small intestine, 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 gastric ulcer or duodenal ulcer or bleeding are at greater risk for serious GI events (5.2).**

RECENT MAJOR CHANGES

Warnings: Clinical Implications with Drug-Drug Interactions (RA) Paucilarterial and Polyarterial Course (1.3)
Design and Administration, General Dosage Instructions (1.1) (2.0) (2.1)
Drug-Drug Interactions, Juvenile Rheumatoid Arthritis (RA) Paucilarterial and Polyarterial Course (1.3)
Warnings and Precautions, Cardiovascular Thrombotic Events (5.1) (5.2) (5.3)
Warnings and Precautions, Heart Failure and Edema (5.5) (5.6)

Contraindications: **Contraindications** (4)
MELOXICAM tablets are a contraindicated NSAID for patients who are scheduled for:
• Coronary artery bypass graft (CABG) surgery (5.2)
• Juvenile Rheumatoid Arthritis (RA) in patients who weigh 40 kg (1.3)

DOSEAGE AND ADMINISTRATION
12.1 The lowest effective dosage for the shortest duration consistent with individual patient treatment goals is:
• OA (2.2) and RA (2.3):
 o Starting dose: 7.5 mg once daily
 o Dose may be increased to 15 mg once daily
• JRA (2.4)
 o 7.5 mg once daily in children 40 kg
MELOXICAM tablets are not interchangeable with approved formulations of oral meloxicam except if the total meloxicam strength in the same (2.4)

DOSEAGE FORMS AND STRENGTHS
• Meloxicam Tablets USP, 15 mg (3)

CONTRAINDICATIONS
• Known hypersensitivity to meloxicam or any component of the drug product (4)
• History of asthma, urticaria, or other allergic-type reactions after taking aspirin or other NSAIDs (4)
• In the setting of CABG surgery (5.2)

WARNINGS AND PRECAUTIONS
5.1 **Cardiovascular Thrombotic Events**
NSAIDs, by inhibiting platelet aggregation, decrease the cardioprotective effect of aspirin. Discontinuation of aspirin may increase the risk for 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 (5.2)).
5.2 **Coronary Artery Bypass Graft (CABG) Surgery**
NSAIDs, including meloxicam, are contraindicated in the setting of CABG surgery (5.2).
5.3 **GI Bleeding, Ulceration, and Perforation**
NSAIDs cause an increased risk of serious gastrointestinal (GI) adverse events including bleeding, ulceration, and perforation of the stomach or small intestine, 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 gastric ulcer or duodenal ulcer or bleeding are at greater risk for serious GI events (see Warnings and Precautions (5.2)).
5.4 **GI Bleeding, Ulceration, and Perforation (see Warnings and Precautions (5.2))**
5.5 **Heart Failure and Edema**
NSAIDs may cause or exacerbate heart failure. Patients with heart failure or a history of heart failure should be closely monitored for signs and symptoms of heart failure.
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NSAIDs may cause or exacerbate heart failure. Patients with heart failure or a history of heart failure should be closely monitored for signs and symptoms of heart failure.
5.7 **Anaphylactic Reactions**
NSAIDs may cause or exacerbate anaphylactic reactions, including anaphylaxis, in patients with a history of anaphylactic reactions.
5.8 **Exacerbation of Asthma Related to Aspirin Sensitivity**
NSAIDs may cause or exacerbate asthma in patients with asthma.
5.9 **Serious Skin Reactions**
NSAIDs may cause or exacerbate serious skin reactions, including severe cutaneous adverse reactions (SCARs), such as Stevens-Johnson syndrome and toxic epidermal necrolysis.
5.10 **Hypertension**
NSAIDs may increase blood pressure.
5.11 **Hematology Toxicity**
NSAIDs may cause or exacerbate hematologic adverse events, including anemia, leukopenia, and thrombocytopenia.
5.12 **Hepatic Impairment**
NSAIDs may cause or exacerbate hepatic adverse events, including liver injury and liver failure.

ADVERSE REACTIONS
8.1 Most common (≥1% and greater than placebo): headache, dizziness, upper respiratory tract infection, constipation, and gastroenteritis symptoms (8.1)
8.2 Adverse events observed in pediatric studies were similar in nature to the adult clinical trial experience (8.2)

TO REPORT SUSPECTED ADVERSE REACTIONS, CONTACT THE FOLLOWING PHARMACEUTICALS (USA), INC. AT 1-800-946-3533 OR FAX AT 1-800-442-1018 (SEE WARNINGS AND PRECAUTIONS (5.2)).

How to Report Suspected Adverse Reactions: Report all adverse reactions, including serious adverse reactions, to ActImmud USA, Inc. and the FDA (see Warnings and Precautions (5.2)).

Reporting of Adverse Reactions: Report all adverse reactions, including serious adverse reactions, to ActImmud USA, Inc. and the FDA (see Warnings and Precautions (5.2)).

Reporting of Adverse Reactions: Report all adverse reactions, including serious adverse reactions, to ActImmud USA, Inc. and the FDA (see Warnings and Precautions (5.2)).

USE IN SPECIFIC POPULATIONS
10.1 **Pregnancy**
Use of NSAIDs during the third trimester of pregnancy increases the risk of premature closure of the fetal ductus arteriosus. Avoid use of NSAIDs in pregnant women starting at 30 weeks gestation (5.2, 8.1)
10.2 **Lactation**
NSAIDs are excreted in human milk. Consider withdrawal of meloxicam in women who are breastfeeding (8.1)

See all the **PATIENT COUNSELING INFORMATION** and **Medication Guide**.
Revised: 2023

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FULL PRESCRIBING INFORMATION

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 (5.2)).**
- **MELOXICAM tablets are contraindicated in the setting of coronary artery bypass graft (CABG) surgery (see Contraindications (4) and Warnings and Precautions (5.2)).**

Gastrointestinal Bleeding, Ulceration, and Perforation
• MELOXICAM causes an increased risk of serious gastrointestinal (GI) adverse events including bleeding, ulceration, and perforation of the stomach or small intestine, 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 gastric ulcer or duodenal ulcer or 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) Paucilarterial and Polyarterial Course
Meloxicam tablets are indicated for relief of the signs and symptoms of paucilarterial or polyarterial course Juvenile Rheumatoid Arthritis in patients who weigh 40 kg (see Dosage and Administration (2.4) and Clinical Studies (14.2)).

2 DOSAGE AND ADMINISTRATION
2.1 General Dosage 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 hemodialysis, a maximum daily dosage of 7.5 mg is recommended (see Use in Specific Populations (9.7) and Clinical Pharmacology (12.3)).
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) Paucilarterial and Polyarterial 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 40 kg. There was no additional benefit demonstrated by increasing the dose above 7.5 mg in clinical trials. Meloxicam tablets should not be used in children who weigh <40 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 (12.3)).
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 from different manufacturers. Do not substitute similar dose strengths of Meloxicam tablets with other formulations of oral meloxicam product.

3 DOSAGE FORMS AND STRENGTHS
Meloxicam Tablets USP:
• 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 component of the drug product (see Warnings and Precautions (5.2, 5.6)).
• 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 (5.7, 5.8)).
• 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 NSAID use appears to be similar to those with and without known CV disease or risk factors. In patients without known CV disease, there are no known CV risk factors, had a higher absolute incidence of events during CV thrombotic events, use the lowest possible baseline risk. Some observational studies found that this 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 be apprised of the development of signs and symptoms of CV thrombotic events and should discontinue NSAID use in the absence of previous CV symptoms. Patients should be informed about the symptoms of serious CV events and the danger 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 gastrointestinal (GI) events (see Warnings and Precautions 5.2).

Signal Post-Committee Artery Response Group (CARG) Summary

Two large, controlled clinical trials of a COX-2 selective NSAID for the treatment of pain in the first 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).

Risk in Patients

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 mortality, 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 patient years in NSAID-treated patients compared to 12 per 100 patient years in NSAID-unexposed patients. Although the absolute rate 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 inflammation, bleeding, ulceration, and perforation of the esophagus, stomach, 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% of patients treated for one year. However, even shorter 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 than 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 concerning reports of fatal GI events occurred in elderly or debilitated patients. Additionally, patients with advanced liver disease and/or coagulopathy have an increased risk for GI bleeding.

Strategies to Minimize the GI Risk 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 at higher risk unless benefits are expected to outweigh the risks of bleeding, ulceration, and perforation, as well as those with active GI bleeding. Consider alternate therapies rather than NSAIDs.
- Remain alert for signs and symptoms of GI ulceration and bleeding during NSAID therapy.
- If a serious GI 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 cardiovascular prophylaxis, monitor patients closely for evidence of GI bleeding (see Drug Interactions 7.3).

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 hepatic injury, 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, abdominal pain, pruritus, jaundice). In other reported instances, some "flu-like" symptoms, if clinical signs and symptoms consistent with liver disease develop, or if symptoms persist or worsen, or if jaundice occurs, discontinue Meloxicam immediately, and perform a clinical evaluation of the patient (see Use in Specific Populations 5.6 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 7.3).

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

5.5 Heart Failure and Edema

The GUSTO and national NSAID Toxicity Collaboration meta-analysis of randomized controlled trials demonstrated 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 receptor blockers (ARBs)) (see Drug Interactions 7.3).

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 Hypokalemia

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 perfusion. In these patients, administration of an NSAID may cause a dose-dependent reduction in prostaglandin formation and, secondarily, in renal blood flow, which may precipitate overt renal decompensation. Patients at greatest risk of this reaction are those with impaired renal function, congestive heart failure, hepatic failure, low circulating volume, and those taking diuretics, ACE inhibitors, or ARBs, and the elderly. Discontinuation of NSAID therapy 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 is maintained by hypokalemia, sodium 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 7.3).

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).

Hyperkalemia

Increases in serum potassium concentration, including hyperkalemia, 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 hyporeninemic hypoaldosteronism state.

5.7 Anaphylactic Reactions

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

Seek emergency help if an anaphylactic reaction occurs.

5.8 Escalation of Asthma Related to Aspirin Sensitivity

A subpopulation of patients with asthma may have aspirin-sensitive asthma which may include chronic rhinosinusitis, conjunctivitis, nasal polyps, severe, obstructive 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 exfoliative dermatitis, Stevens-Johnson Syndrome (SJS), 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 (see Precautions 5.6 and Use in Specific Populations 6.2).

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 increased 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 (SSRIs), and serotonin reuptake inhibitors (DRIs) may increase this risk. Monitor these patients for signs of bleeding (see Drug Interactions 7.3).

5.12 Masking of Inflammation and Fever

The pharmacological activity of Meloxicam in reducing inflammation, and possibly fever, may obscure signs 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 therapy with a CBC and a chemistry profile periodically (see Warnings and Precautions 5.2, 5.3, 5.8).

6 ADVERSE REACTIONS

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

- Cardiovascular Thrombotic Events (see Boxed Warning Warnings and Precautions 5.2)
- GI Bleeding, Ulceration, and Perforation (see Boxed Warning 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 Hypokalemia (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 Trials Experience

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

Adults

Onset/Time and Duration of Adverse Events

The Meloxicam Phase 2/3 clinical trial database includes 10,122 OA patients and 1012 RA patients treated with Meloxicam 7.5 mg/day, 355 OA patients and 131 RA patients treated with Meloxicam 15 mg/day. Meloxicam at these doses was administered to 661 patients for at least 6 months and to 312 patients for at least one year. Approximately 10,500 of these patients were treated in placebo- and/or active-controlled studies. In the Phase 2/3 clinical trial database, 283 of these patients were treated in 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. It was designed to compare the efficacy and safety of Meloxicam with placebo. The 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 groups in a 12-week placebo- and active-controlled osteoarthritis trial. Table 1b depicts adverse events that occurred in ≥2% of the Meloxicam treatment groups in two 12-week placebo-controlled rheumatoid arthritis trials.

Table 1a Adverse Events (% Occurring in ≥2% of Meloxicam Patients in a 12-Week Osteoarthritis Placebo- and Active-Controlled Trial

Adverse Event	Placebo	Meloxicam 7.5 mg/day	Placebo	Meloxicam 15 mg/day
Headache	18	16	19	19
Gastrointestinal	17	20	17	20
Dyspepsia	10	10	11	11
Dizziness	3	7	3	7
Diarrhea	3	7	5	6
Flatulence	4	3	3	3
Constipation	3	3	3	3
Nausea	2	4	2	2
Vomiting	2	3	2	3
Indigestion	2	3	2	3
Stomach pain	2	2	2	2

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 7 to 17 years of age has been evaluated in three clinical trials (see Dosage and Administration (2.3), Adverse Reactions (5.1) 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, 5.3, 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 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 7.5 mg per day. Meloxicam is not dialyzable (see Dosage and Administration (2.3) and Clinical Pharmacology (12.3)).

10 OVERDOSAGE

Symptoms following acute NSAID overdosage have been typically limited to lethargy, drowsiness, nausea, vomiting, and epigastric pain, which have been generally reversible with supportive care. Gastrointestinal bleeding has occurred. Reported acute renal failure, respiratory depression, and coma have occurred, but were rare (see Warnings and Precautions (5.2, 5.2, 5.4, 5.6)).

Manage patients with symptomatic and supportive care following an NSAID overdose. There are no antidotes available. Consider gastric decontamination (activated charcoal to 100 grams in adults, 1 to 2 grams per kg of body weight in pediatric patients) and/or emetic cathartics in symptomatic patients within four hours of ingestion or in patients with a large overdose (5 to 10 times the recommended dosage). For oral dosing, stabilization of airway, hemodynamics, 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 15 mg or 15 mg meloxicam for oral administration. Meloxicam is chemically designated as 4-hydroxy-2-methyl-*N*-(5-methyl-2-thiazolyl)-2-*H*-1,2-benzothiazine-3-carboxamide-1,1-dioxide. The molecular weight is 324.4. An empirical formula is $C_{19}H_{15}N_3O_5S_2$ and it has the following structural formula:



Chemical Structure

Meloxicam is a pastel yellow solid, practically insoluble in water, with higher solubility observed in strong acids and bases. It is very slightly soluble in methanol. Meloxicam has an octanol/water partition coefficient (log *P*_{ow}) = 1.1 in octanol/water and 7.4. Meloxicam has pKa values of 1.1 and 4.2.

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

The inactive ingredients in Meloxicam tablets USP include colloidal silicon dioxide, croscollon, lactose monohydrate, magnesium stearate, microcrystalline cellulose, povidone 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 concentrations were low in rat, dog, and human. In rat, meloxicam was shown to be an animal model. 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

12.3.1 Absorption

The absolute bioavailability of meloxicam capsules was 89% following a single oral dose of 30 mg compared with 30 mg IV dose. Following single intravenous doses, dose- and/or-proportional pharmacokinetics were shown in the range of 5 mg to 60 mg. After multiple-dose pharmacokinetics of meloxicam capsules were shown to be dose-proportional over the range of 7.5 mg to 15 mg. Mean C_{max} was achieved within four to five hours after 3 to 7.5 mg meloxicam tablet was taken under fasted 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 biliary recycling.

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

Table 4 Single Dose and Steady-State Pharmacokinetic Parameters for Oral 7.5 mg and 15 mg Meloxicam (Mean and % CV)*

Pharmacokinetic Parameters (MVE)	Steady State			
	7.5 mg Tablets	15 mg Capsules	15 mg Capsules	15 mg Capsules
N	12	12	12	12
C_{max}	1.05 (20)	2.3 (50)	3.7 (4)	0.82 (20)
C_{min}	4.5 (18)	5 (12)	6 (22)	4 (55)
AUC	20 (12)	21 (16)	21 (16)	19 (25)
CL_R	8.8 (29)	5.1 (12)	10 (13)	11 (44)
V_d	15 (12)	15 (12)	10 (16)	10 (25)

* The parameter values in the table are from venous studies using high-dose conditions.

† V_d = (Dose/AUC) × t_{1/2}

Food and Antacid Effects

Administration of meloxicam capsules following a high fat breakfast (75 g of fat included in main peak drug levels (C_{max})) was increased by approximately 22% while the extent of absorption was unchanged. The time to maximum concentration (T_{max}) was achieved between 5 and 6 hours. No pharmacokinetic interaction was detected with concurrent 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% bound to human plasma proteins. Following administration of a single oral dose range, the fraction of protein binding is dependent of drug concentration, over the clinically relevant concentration range, but increases to ~99% in patients with renal failure. Meloxicam penetration into synovial fluid, after intravenous, 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 2.5 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'-carboxy meloxicam (60% of dose), from P-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, cyclo-oxygenase P450 metabolizing acetylated, are important in the metabolic pathway with a minor contribution of the CYP3A4 isozyme. Patient's peroxidase 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 pharmacological activity.

Excretion

Meloxicam excretion is predominantly in the form of metabolites, and occurs to equal extent in the urine and feces. Only traces of the unchanged parent compound are excreted in the urine (0.2%) and feces (1.6%). The extent of the urinary excretion was confirmed for unaltered multiple 7.5 mg doses (0.5%, 6%, and 13% of the dose were found in urine in the form of meloxicam, and the 5'-carboxy and 5'-carboxymethyl metabolites, respectively. There is significant biliary 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 10 mL/min.

Specific Populations

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 15 years old). The older patients had meloxicam exposures similar to single dose or slightly reduced (younger patients) to those in the adult population, when given AUC, C_{max}, and t_{1/2} were similar to 0.25 mg/kg (see Dosage and Administration (2.3)). The mean elimination half-life was 15.2 (10.1) and 13.0 hours (1.0) for the 2 to 6 year old patients, and 7 to 15 year old patients, respectively.

In a covariate analysis, utilizing population pharmacokinetics body weight, but not age, was the single predictive covariate for differences in the relative clearance and plasma clearance. The body-weight normalized apparent oral clearance values were adequate predictors of meloxicam exposure in pediatric patients.

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 AUCs and 24% higher C_{max} as compared to younger females (≤65 years of age) after both weight normalization. Despite the increased total concentrations in the elderly females, the adverse 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.

Sex

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 16.5 hours for the female group as compared to 23.4 hours for the male group. At steady state, the data were similar (13.9 hours vs 21.4 hours). The pharmacokinetic differences due to gender is likely to be of little clinical importance. There was incoherence of pharmacokinetics and no appreciable differences in the C_{max} or T_{max} parameters.

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 (8.6)).

Renal Impairment

Meloxicam pharmacokinetics have been investigated in subjects with mild and moderate renal impairment. Total drug plasma concentrations of meloxicam decreased and total clearance of meloxicam increased with the degree of renal impairment with 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/or increased 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 dose 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 were reduced, although the clearance of meloxicam was not altered. When Meloxicam is administered with aspirin (1000 mg three times daily) to healthy volunteers, it tended to increase the AUC (10%) and C_{max} (24%) of meloxicam. The clinical significance of this interaction is not known. See Table 3 for clinically significant drug interactions of NSAIDs with aspirin (see Drug Interactions (7.1)).

Cholestyramine/Pre-treatment for four days with cholestyramine significantly increased the clearance of meloxicam by 50%. This resulted in a decrease in t_{1/2} from 15.2 hours to 13.2 hours, and a 35% reduction in AUC. This suggests the existence of a recirculation pathway for meloxicam in the gastrointestinal tract. The clinical relevance of this interaction has not been established.

Clopidogrel/Concurrent administration of 200 mg clopidogrel 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 -acetylcholine administration for 7 days at clinical doses. In extending hours to protein binding drug interaction between digoxin and meloxicam.

Lithium/In a study conducted in healthy subjects, mean steady-state lithium concentration and AUC were increased by 21% in subjects receiving lithium while receiving 150 mg to 1072 mg twice daily with meloxicam 15 mg QD every day as compared to subjects receiving lithium alone (see Drug Interactions (7.1)).

Methotrexate/In a study in 13 rheumatoid arthritis (RA) patients evaluated the effects of

multiple doses of meloxicam on the pharmacokinetics of meloxicam taken once weekly. Meloxicam did not have a significant effect on the pharmacokinetics of single doses of meloxicam. In vitro, meloxicam did not displace meloxicam from its human serum binding sites. [see Drug Interactions (7)]

Warnings
The effect of meloxicam on the antiproliferative 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 patients 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 in rats and up to 0.8 mg/kg/day in mice (up to 0.5 and 0.2 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 in 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 5.8- and 3.2-fold 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 (15 mg, 7.5 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 (a self-administered questionnaire measuring 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 six double-blind, active-controlled trials outside the U.S. ranging from 4 weeks to 16 months' duration. In these trials, the efficacy of Meloxicam in doses of 7.5 mg/day and 15 mg/day, was compared to piroxicam 20 mg/day and diclofenac SR 100 mg/day and compared 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 RA response. Patients receiving Meloxicam 7.5 mg and 15 mg daily showed significant improvement in the primary response 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) Pauciarticular and Polyarticular Course

The use of Meloxicam for the treatment of the signs and symptoms of pauciarticular or polyarticular 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 0.125 mg/kg/day (7.5 mg maximum) or 0.25 mg/kg/day (15 mg maximum), and naproxen dosing began at 0.1 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 11 mg/kg/day of naproxen.

The efficacy analyses used the ACR modified 20 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 was 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 in a light yellow, oblong, bicolor, uncoated tablet containing meloxicam 15 mg. The 15 mg tablet is imprinted with letter U and L on one side and tablet code 15 on the other side.

Meloxicam Tablets USP 15 mg are available as follows:

NDC 76420-039-07: Bottles of 7 (repackaged from NDC 29300-125-XX)

NDC 76420-039-10: Bottles of 10 (repackaged from NDC 29300-125-XX)

NDC 76420-039-14: Bottles of 14 (repackaged from NDC 29300-125-XX)

NDC 76420-039-20: Bottles of 20 (repackaged from NDC 29300-125-XX)

NDC 76420-039-30: Bottles of 30 (repackaged from NDC 29300-125-XX) available from NDC 29300-125-133)

NDC 76420-039-60: Bottles of 60 (repackaged from NDC 29300-125-XX)

NDC 76420-039-60: Bottles of 60 (repackaged from NDC 29300-125-XXX) available from NDC 29300-125-191)

NDC 76420-039-61: Bottles of 100 (repacked from NDC 29300-125-61)

NDC 76420-039-05: Bottles of 500 (repacked from NDC 29300-125-05)

NDC 76420-039-00: Bottles of 1,000 (repacked from NDC 29300-125-10)

NDC 76420-039-55: Bottles of 5,000 (available from NDC 29300-125-50)

Storage

Store at 20° to 25° C (68° to 77° F) [see USP Controlled Room Temperature]. Keep Meloxicam Tablets USP in a dry place.

Dispense tablets in a tight 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.
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 (5.1)).

Gastrointestinal Bleeding, Ulceration, and Perforation

Advise patients to report symptoms of ulceration and bleeding, including epigastric pain, dyspepsia, melena, and hematemesis to their healthcare provider. In the setting of concurrent use of low-dose aspirin for cardiovascular prophylaxis, inform patients of the increased risk for the signs and symptoms of GI bleeding (see Warnings and Precautions (5.2)).

Hypertension

Inform patients of the warning signs and symptoms of hypertension (e.g., headache, fatigue, lethargy, dizziness, pruritus, jaundice, right upper quadrant tenderness, and "flu-like" symptoms). If these or other clinical 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 Reaction

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 they notice (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 (5.8)).

Contraception

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 (6.2)).

Childbearing

Inform pregnant women to avoid use of Meloxicam tablets and other NSAIDs starting at 30 weeks gestation because of the risk of the premature closing of the fetal ductus arteriosus (see Warnings and Precautions (5.1)(B) and Use in Specific Populations (6.2)).

Blood Coagulation Use of NSAIDs

Inform patients that the concurrent use of Meloxicam tablets with other NSAIDs or salicylates (e.g., off-inhaled salbutamol) is not recommended due to the increased risk of gastrointestinal toxicity, and that the use of aspirin is contraindicated (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 influenza.

Use of NSAIDs and Low-Dose Aspirin

Inform patients not to use low-dose aspirin concomitantly with Meloxicam tablets until they talk to their healthcare provider (see Drug Interactions (7)).

Repackaged and Repackaged USP

Enovachem PHARMACEUTICALS
Torrance, CA 90501

SPL MEDGUIDE

Medication Guide for Nonsteroidal Anti-Inflammatory Drugs (NSAIDs)

What is the most important information I should know about medicines called Nonsteroidal Anti-Inflammatory Drugs (NSAIDs)? 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 use NSAIDs right before or after a heart surgery called a coronary artery bypass graft (CABG).

1. Avoid taking NSAIDs after a recent heart attack, unless your healthcare provider tells you to. You may have an increased risk of another heart attack if you take NSAIDs after a recent heart attack.

2. Increased risk of bleeding, ulcers, and tears (perforation) of the esophagus (tube leading from the mouth to the stomach), stomach and intestines:

• avoid taking NSAIDs if you have any of the following symptoms:
• stomach pain or discomfort
• indigestion or heartburn
• black or bloody stools
• blood in your urine or stool
• stomach pain or discomfort

3. NSAIDs should only be used:

• exactly as prescribed
• if the benefit there possible for your treatment
• for the shortest time needed

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

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

Before taking NSAIDs, tell your healthcare provider about all of your medical conditions, including if you:

• have had or taking products:
• 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.

4. Tell your healthcare provider about all of the medicines you take, including prescriptions or over-the-counter medicines, vitamins or herbal supplements, and other medicines. Some 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.

What are the possible side effects of NSAIDs? NSAIDs can cause serious side effects, including:

See "What is the most important information I should know about medicines called Nonsteroidal Anti-Inflammatory Drugs (NSAIDs)?"

• new or worse high blood pressure
• heart failure
• kidney problems including kidney failure
• not being able to urinate
• bleeding problems
• stomach or liver disease
• increased risk of bleeding, ulcers, and tears (perforation) of the esophagus, stomach and intestines

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
• dizziness
• 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:

• nausea
• faint or weaker than usual
• diarrhea
• itching

- your skin or eyes look yellow
- irritation or stomach pain
- flu-like symptoms
- vomited blood
- there is blood in your bowel movement or it is black and sticky like tar
- unusual weight gain
- joint pain or stiffness 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.
There 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 reduce clotting in the brain, stomach, and intestines. Aspirin can also cause ulcers in the stomach and intestines.
Some NSAIDs are sold as 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:
NSAIDs are sometimes prescribed for conditions 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. They may harm them.
If you need less information about NSAIDs, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about NSAIDs that is written for people who do not speak English as their first language.
Not for Sale in the United States



MELOXICAM
meloxicam tablet

Product Information	
Product Type	Human Prescription Drug
Route of Administration	Oral
Active Ingredient/Active Moiety	Meloxicam
Strength	15 mg

Inactive Ingredients	
Hydroxypropyl Cellulose	15 mg
Hydroxypropyl Methylcellulose	15 mg
Hydroxypropyl Methylcellulose K100	15 mg
Hydroxypropyl Methylcellulose K150	15 mg
Hydroxypropyl Methylcellulose K1000	15 mg
Hydroxypropyl Methylcellulose K1500	15 mg
Hydroxypropyl Methylcellulose K10000	15 mg
Hydroxypropyl Methylcellulose K15000	15 mg

Product Characteristics	
Color	White
Shape	Round
Flavor	None
Contains	No

SN	NDC Code	Package Description	Marketing Start Date	Marketing End Date
1	1001-14232-09	7 x 1, BOTTLE, Type R, Not a Combination Product	2013/03/29	
2	1001-14232-09	30 x 1, BOTTLE, Type R, Not a Combination Product	2013/03/29	
3	1001-14232-09	90 x 1, BOTTLE, Type R, Not a Combination Product	2013/03/29	
4	1001-14232-09	30 x 1, BOTTLE, Type R, Not a Combination Product	2013/03/29	
5	1001-14232-09	90 x 1, BOTTLE, Type R, Not a Combination Product	2013/03/29	
6	1001-14232-09	30 x 1, BOTTLE, Type R, Not a Combination Product	2013/03/29	
7	1001-14232-09	90 x 1, BOTTLE, Type R, Not a Combination Product	2013/03/29	
8	1001-14232-09	30 x 1, BOTTLE, Type R, Not a Combination Product	2013/03/29	
9	1001-14232-09	90 x 1, BOTTLE, Type R, Not a Combination Product	2013/03/29	
10	1001-14232-09	30 x 1, BOTTLE, Type R, Not a Combination Product	2013/03/29	
11	1001-14232-09	90 x 1, BOTTLE, Type R, Not a Combination Product	2013/03/29	

Marketing Information	
Marketing Category	Human Prescription Drug
Marketing Start Date	2013/03/29
Marketing End Date	

Labeler
Janssen-Cilag, Inc. (201388937)

Establishment	
Name	Janssen-Cilag, Inc.
Address	One Janssen Parkway, Kenilworth, NJ 07033
State	NJ
Business Operations	Manufacturer