

MELOXICAM: meloxicam tablet
St. Mary's Medical Park Pharmacy

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

MELOXICAM tablets, for oral use

USDA Approved 0000

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 (1.1)**
• **Meloxicam is 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 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 peptic ulcer disease and/or GI bleeding are at greater risk for serious GI events (5.2.1)**

RECENT MAJOR CHANGES

Boxed Warning	50016
Indications and Usage, Juvenile Rheumatoid Arthritis (JRA) Pauciarticular and Polyarticular Course (1.3)	60164
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INDICATIONS AND USAGE
Meloxicam Tablets are indicated for the treatment of the following conditions:
• Osteoarthritis (OA) (1.1)
• Rheumatoid Arthritis (RA) (1.2)
• Juvenile Rheumatoid Arthritis (JRA) in patients who weigh ≥ 60 kg (1.3)

DOSE AND ADMINISTRATION
Use the lowest effective dosage for the shortest duration consistent with individual patient treatment goals (2.1).
• OA (2.1) and RA (2.1):
o Starting dose: 7.5 mg once daily
o Dose may be increased to 15 mg once daily
• RA (2.1)
• 7.5 mg once daily in children ≥ 60 kg
• Meloxicam tablets are not interchangeable with approved formulations of oral meloxicam even if the total milligram strength is the same (2.6)

DOSE FORMS AND STRENGTHS
• Meloxicam Tablets, USP: 7.5 mg and 15 mg (1)

CONTRAINDICATIONS
• Known hypersensitivity to meloxicam or any components of the drug product (4)
• History of peptic ulcer disease or other upper GI tract lesions (5.1)
• History of severe asthma or other allergic-type reactions (5.1)
• In the setting of CABG surgery (4)

WARNINGS AND PRECAUTIONS
• **Myocardial infarction** Inform patients of warning signs and symptoms of myocardial infarction. Discontinue meloxicam if myocardial infarction is suspected or confirmed. (5.1)
• **Stroke** Inform patients of warning signs and symptoms of stroke. Discontinue meloxicam if stroke is suspected or confirmed. (5.1)
• **GI Bleeding, Ulceration, and Perforation** Inform patients of warning signs and symptoms of GI bleeding, ulceration, and perforation. Discontinue meloxicam if GI bleeding, ulceration, or perforation is suspected or confirmed. (5.2)
• **Heart Failure and Edema** Inform patients of warning signs and symptoms of heart failure and edema. Discontinue meloxicam if heart failure or edema is suspected or confirmed. (5.2)
• **Renal Impairment** Avoid use of meloxicam in patients with advanced renal impairment. Heart failure benefits are expected to outweigh risk of worsening renal function (5.2).
• **Hepatic Impairment** Avoid use of meloxicam in patients with advanced hepatic impairment. (5.2)
• **Reversible Infertility** Meloxicam may cause reversible infertility in women. (5.2)
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ADVERSE REACTIONS
• Most common (≥10% and greater than placebo) adverse events in adults are diarrhea, upper respiratory tract infection, dyspepsia, and influenza-like symptoms (6.1)
• Major events observed in clinical studies were similar in nature to the adult clinical trial experience

TO REPORT SUSPECTED ADVERSE REACTIONS, CONTACT YOUR PHARMACEUTICAL (US) OR 1-877-834-2263 (US) FOR A 24-HOUR SERVICE OR VISIT www.fda.gov/medwatch

DRUG INTERACTIONS
• **Aspirin** Inform patients of the risk of increased bleeding when meloxicam is used with aspirin. (7)
• **Warfarin** Inform patients of the risk of increased bleeding when meloxicam is used with warfarin. (7)
• **Other NSAIDs** Inform patients of the risk of increased bleeding when meloxicam is used with other NSAIDs. (7)
• **ACE Inhibitors** Inform patients of the risk of increased bleeding when meloxicam is used with ACE inhibitors. (7)
• **Anticoagulants** Inform patients of the risk of increased bleeding when meloxicam is used with anticoagulants. (7)
• **Antidiabetic Agents** Inform patients of the risk of hypoglycemia when meloxicam is used with antidiabetic agents. (7)
• **Antihypertensives** Inform patients of the risk of decreased blood pressure when meloxicam is used with antihypertensives. (7)
• **Anticholinergics** Inform patients of the risk of decreased effectiveness of anticholinergics when meloxicam is used with anticholinergics. (7)
• **Antacids** Inform patients of the risk of decreased effectiveness of antacids when meloxicam is used with antacids. (7)

USE IN SPECIFIC POPULATIONS
• **Geriatric** Inform patients of the risk of increased bleeding when meloxicam is used in geriatric patients. (7)
• **Renal Impairment** Inform patients of the risk of increased bleeding when meloxicam is used in patients with renal impairment. (7)
• **Hepatic Impairment** Inform patients of the risk of increased bleeding when meloxicam is used in patients with hepatic impairment. (7)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide. Revised: 6/2021

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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 is 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
• **NSAIDs cause an increased risk of serious gastrointestinal (GI) adverse events, including bleeding, ulceration, and perforation of the stomach or 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 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) Pauciarticular and Polyarticular Course
Meloxicam tablets are indicated for relief of the signs and symptoms of pauciarticular or polyarticular course Juvenile Rheumatoid Arthritis in patients who weigh ≥60 kg (see Dosage and Administration (2.4) and Clinical Studies (14.2)).

2 DOSE 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 (5.1)).
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 are 15 mg regardless of formulation. In patients with hemodialysis, a maximum daily dosage of 7.5 mg is recommended (see Use in Specific Populations (8.7) 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) Pauciarticular and Polyarticular 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 was no additional benefit demonstrated by increasing the dose above 7.5 mg in clinical trial. Meloxicam tablets should not be used in children who weigh <60 kg.

2.5 Renal Impairment
The use of meloxicam in subjects with severe renal impairment is not recommended. In patients on hemodialysis, the maximum dosage of meloxicam 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 product even if the total milligram strength is the same. Do not substitute similar dose strengths of meloxicam tablets with other formulations of oral meloxicam product.

3 DOSE FORMS AND STRENGTHS

Meloxicam Tablets, USP:
• 7.5 mg, yellow, round-shaped, flat beveled edge, uncoated tablets debossed with '20' and '25' on the side and plain on other side
• 15 mg, yellow, round-shaped, flat beveled edge, uncoated tablets debossed with '20' and '26' on the side and plain on other side

4 CONTRAINDICATIONS

Meloxicam is 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, 5.2, 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 (5.7, 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 risk of serious CV thrombotic events over benefits conferred by NSAID 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 for CV disease have absolute incidences of excess serious CV thrombotic events, due to their increased baseline risk. Some observational studies found that this increased risk of serious CV thrombotic events began as early as the first few 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 entire 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 gastrointestinal (GI) events [see Warnings and Precautions (5.2)]

Specific Post Coronary Artery Bypass Graft (CABG) Surgery Two large, controlled clinical trials of a COX-2 selective NSAID for the treatment of pain in the first 10-14 days following CABG surgery found an increased incidence of myocardial infarction and stroke. NSAIDs are contraindicated in the setting of CABG [see Contraindications (4)]

Post-MI Patients

Observational studies conducted in the Danish National Registry have demonstrated that patients treated with NSAIDs in the post-MI period were at an 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 after MI was 20% among 100,000 patients in NSAID-treated patients compared to 12 per 100,000 person years in non-NSAID exposed 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 ulcers, 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. Patients treated with NSAIDs should be alert for signs and symptoms of GI adverse events. Only one in five patients who develop a serious upper GI adverse event on NSAID therapy (e.g., dyspepsia, upper GI bleeding, or perforation) caused by NSAID use reported symptoms. Upper GI bleeding, or perforation caused by NSAIDs occurred in approximately 1% of patients treated for 3-6 months, and in about 2-4% of patients treated for one year. However, even shorter-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 than 3-fold increased risk for developing a GI ulcer 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. Additional 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 at 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.
- A serious GI adverse event is suspected, promptly initiate evaluation and treatment, and discontinue meloxicam until a serious GI adverse event has resolved.
- In the setting of concomitant use of low-dose aspirin for cardiac prophylaxis, monitor patients most 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 hepatic injury, including fulminant hepatitis, liver necrosis, and hepatic failure have been reported.

Elevations of ALT or AST (less than three times [3x] ULN) may occur in up to 15% of patients treated with NSAIDs, including meloxicam. In most patients, the elevations are asymptomatic and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, diarrhea, pruritus, jaundice, right upper quadrant tenderness, and flu-like symptoms), if present, are mild. Signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., anorexia, rash, etc.), discontinue meloxicam immediately, and perform a clinical evaluation of the patient [see Use in Specific Populations (8.6) 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 antihypertensive 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 COX-2 and nonselective NSAID Tricor 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 taking NSAIDs. Use of meloxicam may increase the risk of several of these adverse events. Use in at-risk individuals with medical conditions (e.g., diuretics, ACE inhibitors, or angiotensin 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 Hypokalemia

Long-term administration of NSAIDs, including meloxicam, has resulted in renal papillary necrosis, renal insufficiency, acute renal failure, and other secondary renal toxicity that is also seen in patients in whom renal prostaglandin formation is 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 acute renal decompensation. Patients at greatest risk of this reaction are those with impaired renal function, dehydration, hypovolemia, heart failure, liver dysfunction, those taking diuretics and ACE inhibitors or ARBs, and the elderly. Discontinuation of NSAID therapy is usually followed by recovery in the preexisting renal state.

The renal effects of meloxicam may hasten the progression of renal dysfunction in patients with preexisting renal disease. Because some meloxicam medications 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)]

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)]

5.7 Hypokalemia

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-hypoadrenergic state.

5.8 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.

5.9 Exacerbation of Asthma Related to Aspirin Sensitivity

A subpopulation 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 hypersensitivity), 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 signs 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 (8.2)]

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 idiosyncratic decrease 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 norepinephrine reuptake inhibitors (SNRIs) may increase the 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 diminish 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 (5.2, 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 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 Hypokalemia [see Warnings and Precautions (5.6)]
- Anaphylactic Reactions [see Warnings and Precautions (5.7)]
- Serious Skin Reactions [see Warnings and Precautions (5.9)]
- 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 rates observed in practice.

Adults

Osteoarthritis and Rheumatoid Arthritis

The meloxicam Phase 2/3 clinical trial database includes 16,122 OA patients and 1012 RA patients treated with meloxicam 7.5 mg daily, 15 mg daily, and 15 mg bid, following randomization to meloxicam 13 mg daily treatment in these doses was administered to 86 patients for at least 6 months, and to 312 patients for at least one year. Approximately 15,020 patients safely were treated in placebo- and/or active-controlled trials in osteoarthritis trials and 2,263 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.

In 13-week meloxicam double-blind, controlled trials conducted in patients with osteoarthritis of the knee or hip to compare the efficacy and safety of meloxicam with placebo with or without control. Two 12-week meloxicam double-blind, randomized trials were 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/or active-controlled osteoarthritis trial.

Table 1a 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

No. of Patients	Meloxicam			Placebo
	7.5 mg daily	15 mg daily	15 mg bid	
GI/Intestinal	12.7	20.1	17.2	10.1
Other	4.0	4.0	2.5	

Data

Animal Data

Meloxicam was not teratogenic when administered to pregnant rats during fetal organogenesis at oral doses up to 4 mg/kg/day (2.6-fold greater than the MHD of 15 mg of meloxicam based on BSA comparison). Administration of meloxicam to pregnant rabbits throughout embryogenesis produced an increased incidence of skeletal defects of the heart at an oral dose of 60 mg/kg/day (10-fold greater than the MHD based on BSA comparison). The no effect level was 20 mg/kg/day (0.6-fold greater than the MHD based on BSA comparison). In rats and rabbits, embryotoxicity occurred at oral meloxicam doses of 1 mg/kg/day and 2 mg/kg/day, respectively (ESD at 6-fold greater than the MHD based on BSA 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 at meloxicam doses of 0.125 mg/kg/day or greater (0.08-fold MHD based on BSA comparison).

2.2 Lactation

Risk Summary

There are no human data available on whether meloxicam is present in human milk, or on the 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.

2.3 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 administration of prostaglandin synthesis inhibitors has the potential to disrupt prostaglandin-mediated follicular rupture required for ovulation. Clinical studies in women treated with NSAIDs have also shown a reversible delay in ovulation. Consider withdrawal of NSAIDs, including meloxicam, in women who have difficulty conceiving or who are undergoing investigation of infertility.

2.4 Pediatric Use

The safety and effectiveness of meloxicam in pediatric (PA) patients from 2 to 17 years of age has been evaluated in three clinical trials (see Dosage and Administration (2.3), Adverse Reactions (4.2) and Clinical Studies (4.2)).

2.5 Geriatric Use

Elderly patients, compared to younger patients, are at greater risk for NSAID associated adverse effects, including renal, hepatic, and/or renal adverse reactions. If the anticipated benefit for the elderly patient outweighs these potential risks, extra cautioning at the low end of the dosing range and monitor patients for adverse effects (see Warnings and Precautions (5.2, 5.3, 5.6, 5.6, 5.10)).

2.6 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)).

2.7 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 (2.2) and Clinical Pharmacology (12.3)).

10 OVERDOSAGE

Symptoms following acute NSAID overdosages 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 overdosage. There are no specific antidotes. Consider emesis and/or activated charcoal (50 to 100 grams in adults, 1 to 2 grams per kg of body weight in pediatric patients) and/or gastric catheter if symptoms have been seen within four hours of ingestion and in patients with a pH of overdosage 1 to 3 times the recommended dosage. For renal decompensation, alkalinization of 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. Accidental 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 overdosage. For additional information about overdosage treatment, call a poison control center (1-800-222-1222).

11 DESCRIPTION

Meloxicam is a nonsteroidal anti-inflammatory drug (NSAID). Each white meloxicam tablet contains 7.5 mg or 15 mg meloxicam for oral administration. Meloxicam is chemically described as 4-methoxy-2-(1-methyl-5-oxo-1,5-dihydro-2H-tetrazol-4-yl)benzoic acid, 2-(3,4-dihydro-2H-pyridin-2-yl)-N-(2,6-dimethylphenyl)carbamate, 1,1-dioxide. The molecular weight is 351.4. Its empirical formula is C₂₁H₂₄N₄O₅S₂ and it has the following structural formula:



Meloxicam USP is a pale yellow powder, practically insoluble in water, slightly soluble in acetone, soluble in dimethylformamide, very slightly soluble in ethanol (95%), and in methanol. Meloxicam USP has an apparent partition coefficient (log P) of 2.7, a c_{log P} of 1.1, and a c_{log P} of 0.7. Meloxicam oral tablets contain 7.5 mg or 15 mg meloxicam USP. Each meloxicam tablet USP intended for oral administration contains 7.5 mg or 15 mg meloxicam USP. In addition, each tablet contains the following inactive ingredients: cobalt diborate, croscarmellose, lactose monohydrate, magnesium stearate, microcrystalline cellulose, polyvinylpyrrolidone, 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) 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 nerves and potentiate the action of bradykinin in inducing pain in animal models. Prostaglandins are mediators of inflammation. Because meloxicam is an inhibitor of prostaglandin synthesis, its most serious action may be due to inhibition of prostaglandin peripheral tissue.

12.2 Pharmacokinetics

Absorption

The absolute bioavailability of meloxicam capsules was 89% following a single oral dose of 30 mg compared with 30 mg IV bolus injection. Following single intravenous doses, dose-proportionate pharmacokinetics were shown in the range of 5 mg to 60 mg. After multiple oral doses the pharmacokinetics of meloxicam capsules were dose-proportionate 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 oral parietum. 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 recirculation.

Meloxicam oral suspension doses of 7.5 mg/mL and 15 mg/10 mL have been found to be bioequivalent to meloxicam 7.5 mg and 15 mg tablets, respectively. Meloxicam capsules have been shown to be bioequivalent to meloxicam tablets.

Pharmacokinetic Parameters (CV)	Steady State			Single Dose		
	Healthy male adults (n=18)	Elderly male (n=15)	Elderly female (n=15)	Renal failure (n=15)	Hepatic insufficiency (n=15)	Healthy male (n=15)
C _{max} (ng/mL)	1.05 (20)	2.1 (20)	3.2 (20)	0.99 (8)	0.88 (9)	1.1
t _{1/2} (h)	8.3 (10)	7.1 (10)	7.7 (10)	7.8 (10)	10 (10)	8.3
AUC ₀₋₂₄ (ng·h/mL)	23.2 (20)	0.9 (16)	1.1 (16)	1.1 (16)	1.1 (16)	23.2
t _{1/2} (h)	14.7 (21)	15 (22)	10 (20)	26 (14)	14 (20)	

¹See package insert for the full table.

Food and Antacid Effects

Administration of meloxicam capsules following a high fat breakfast (75 g of fat) resulted in a mean peak drug level (C_{max}) being increased by approximately 27% while the extent of absorption (AUC) was unchanged. The time to maximum concentration (T_{max}) was achieved within 3 and 6 hours. In comparison, neither the AUC nor C_{max} values for meloxicam suspension were affected following a similar high fat meal, while mean T_{max} values were increased to approximately 7 hours. No pharmacokinetic interaction was detected with concomitant administration of antacids. Based on these results, meloxicam can be administered without regard to timing of meal or concomitant administration of antacids.

Distribution

The mean volume of distribution (V_d) of meloxicam is approximately 10 L. Meloxicam is 98.4% bound to human plasma proteins primarily albumin while the plasma:disc ratio range. The fraction of protein binding is independent of drug concentration, over the clinically relevant concentration range, but decreases to ~85% in patients with renal disease. Meloxicam penetration into human red blood cells, after oral dosing, is less than 10%. Following a radiolabeled dose, over 95% of meloxicam detected in the plasma was present as unchanged meloxicam.

In a crossover analysis, 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 (50% of dose), from 4-hydroxy meloxicam 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 (cytochrome P450 metabolizing enzyme) plays an important role in the metabolic pathway. A minor contribution of the CYP3A4 isozyme. Patients receiving active or passive immunization are probably responsible for the other two metabolites which account for 18% and 4% of the administered dose, respectively. As 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 extents in the urine (24%) and feces (14%). The extent of the urinary excretion was confirmed for unaltered meloxicam 7.5 mg doses (32%, 4%, and 1% of the dose were found in urine in the form of meloxicam, and the 5-hydroxymethyl and 5-carboxy metabolites, respectively). There is no biliary or renal excretion of the drug. The data demonstrate that after administration of a radiolabeled dose 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 including liver metabolism within the therapeutic dose range. Plasma clearance ranges from 7 to 9 mL/min.

Specific Populations

Pediatric: After single (0.25 mg/kg) dose administration and after achieving steady state (0.25 mg/kg/day), there was a general trend of approximately 20% increase in plasma concentration (C_{max}) in 8-year-olds as compared to the older patients (7 to 15 years old). The older patients had meloxicam exposure similar (single dose) or slightly reduced (steady state) to those in the adult patients, when using AUC values normalized to a dose of 0.25 mg/kg (see Dosage and Administration (2.4)). The meloxicam mean (SD) elimination half-life was 15.2 (10.1) and 13.0 hours (3.0) for the 2 to 6 year old patients, and 7 to 15 year old patients, respectively.

In a crossover analysis, utilizing population pharmacokinetics, body weight, but not age, was the single predictor covariate for differences in the meloxicam apparent oral 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 AUC₀₋₂₄ and 32% higher C_{max} as compared to younger females (18 to 55 years of age), both weight normalized. Despite the increased total clearance due to the elderly females, the adverse effect profile was comparable to the 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 18.3 hours for the female group as compared to 23.4 hours for the male group. At steady state, the data were similar (17.7 hours vs. 21.4 hours). The pharmacokinetic differences due to gender > 6 hours is not due to differences in the plasma protein binding of meloxicam and is not appreciable difference in the C_{max} 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 controls. The mean tendency 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

[2483.Pyru Class, III] have not been adequately studied | see Warnings and Precautions (3.3) and Use in Specific Populations (8.6)

Analgesic

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 the AUC₀₋₂₄ 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 (2.5), Warnings and Precautions (5.6) and Use in Specific Populations (8.7) |

Hemodialysis

Following a single dose of meloxicam, the free (free plasma concentrations were higher in patients with renal failure on chronic hemodialysis (3x free fraction) in comparison to healthy volunteers (0.3x free fraction). Hemodialysis did not lower the total drug concentration in plasma. Therefore, additional dose is not necessary after hemodialysis. Meloxicam is not dialyzable | see Dosage and Administration (2.1), and Use in Specific Populations (8.7)

Drug Interaction Studies

Aspirin

When NSAIDs were administered with aspirin, the protein binding of NSAIDs were reduced, although the clearance of the NSAID was not altered. When meloxicam is administered with aspirin (1000 mg three times daily to healthy subjects, it tended to increase the AUC (10x) and C_{max} (20x) 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) |

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 19.2 hours to 3.2 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.

Concomitant administration of 200 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 ³²P-digoxin administration for 7 days at clinical doses. In vitro testing 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 600 to 3375 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 once 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 1.8. In these subjects, meloxicam did not alter warfarin pharmacokinetics and the anticoagulant effect of warfarin as measured by INR or prothrombin time. However, one subject showed a 16-fold 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 (124 weeks) and mice (99 weeks) administered meloxicam at oral doses up to 0.8 mg/kg/day in rats and up to 0.8 mg/kg/day in mice (up to 5 and 2.6 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 5.8- and 3.2-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 (13.75 mg, 7.5 mg, and 15 mg daily) (see compared to placebo. The four primary endpoints were investigator's 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 six double-blind, active-controlled trials outside the U.S., ranging from 4 weeks to 18 weeks. In these trials, the efficacy of meloxicam in doses of 1.5 mg/kg/day and 18 mg/kg/day was comparable to placebo (20 mg/kg/day and diclofenac 50-100 mg/kg/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 endpoints in this trial were the ACR20 response rate, a composite measure of C-reactive protein and functional measures (RA response), and functional measures (HAQ disability index). Patients on meloxicam 15 mg and 22.5 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) 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 10 mg/kg/day. Only one 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 0.25 mg/kg/day (22.5 mg maximum) of meloxicam and 15 mg/kg/day of naproxen.

The efficacy analysis used the ACR response, 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.

14 HOW SUPPLIED/STORAGE AND HANDLING

Meloxicam Tablets USP, 7.5 mg are yellow, round-shaped, flat beveled discs, uncoated tablets, debossed with "ZC" and "25" on one side and plain on other side and are supplied as follows:

NDC

60760-448-07 BOTTLES OF 7

60760-448-10 BOTTLES OF 10

60760-448-30 BOTTLES OF 30

60760-448-90 BOTTLES OF 90

60760-448-99 BOTTLES OF 99

Storage

Store at 20° to 25° C (68° to 77° F) [see USP Controlled Room Temperature]. Keep meloxicam tablets 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 (10)-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 ulcerations and bleeding, including epigastric pain, dyspepsia, melena, and hematemesis to their healthcare provider. In the setting of concomitant use of low-dose aspirin for cardiac prophylaxis, inform patients of the increased risk for the signs and symptoms of GI bleeding | see Warnings and Precautions (5.2) |

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 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, gain in 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 immediately if they develop any type of rash and to report that their healthcare provider as soon as possible | see Warnings and Precautions (5.3) |

Female Fertility

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

Fetal Toxicity

Inform pregnant women to avoid use of meloxicam 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) and Use in Specific Populations (8.2) |

Avoid Concomitant Use of NSAIDs

Inform patients that the concomitant use of meloxicam with other NSAIDs or salicylates (e.g., effervescent tablets) is not recommended due to the increased risk of gastrointestinal toxicity, and 80% or no increase in efficacy | 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 concomitantly with meloxicam until they talk to their healthcare provider | see Drug Interactions (7) |

Registered Trademarks

*Avenabile is a registered trademark of Sanofi-Aventis.

Please address medical inquiries to: MedInfoAffairs@zyndususa.com | Tel.: 1-877-993-8178

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 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 to. 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

The risk of getting an ulcer or bleeding increases with:

• past history of stomach ulcers, or stomach or intestinal bleeding with use of NSAIDs.

• taking medicines called "corticosteroids," "anticoagulants," "SSRIs," or "SNRIs"

• increasing doses of NSAIDs

• older age

• longer use of NSAIDs

- prior health or smoking
- advanced liver disease
- drinking alcohol
- bleeding problems

NSAIDs should only be used:

- exactly as prescribed
- at the lowest dose possible for your treatment
- for the shortest time needed

What are NSAIDs?

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

Who should not take NSAIDs?

- Do not take NSAIDs:
 - if you've had an asthma attack, hives, or other allergic reaction with aspirin or any other NSAID.
 - right before or after heart bypass surgery.

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.**

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
- liver problems including liver failure
- kidney problems including kidney failure
- low red blood cell counts
- stomach ulcers and bleeding

• 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
- dizziness
- chest pain
- swelling of the face or throat
- weakness in one part or side of your body

Stop taking your NSAID and call your healthcare provider right away if you get any of the following symptoms:

- fainting
- more tired or weaker than usual
- there's blood in your stool/movement or it is
- diarrhea black and sticky like tar
- itching
- unusual weight gain
- your skin or eyes look yellow
- skin rash or blisters with fever
- redness or stomach pain
- swelling of the arms, legs, hands and feet
- flu-like symptoms

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 skin, stomach, and intestines. Aspirin can also cause ulcers in the stomach and intestines.

• Some NSAIDs are used to treat fever 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. If you learn more about other people, even if they have the same symptoms that you have, it may harm them. If you would like more information about NSAIDs, talk with your healthcare provider. You can also refer your pharmacist to a healthcare provider for information about NSAIDs that is written for health professionals.

Phone address medical inquiries to: (MedCall@fda.gov) Tel: 1-877-993-8774

This Medication Guide has been approved by the U.S. Food and Drug Administration. The product's label may have been updated. For current full prescribing information, please visit www.zylisusa.com.

Manufactured by:

Cade Healthcare Ltd.

India.

Distributed by:

Zylis Pharmaceuticals USA Inc.

Paramaribo, Guyana

Rev: 07/16

	MedboxCam TABLETS, USP 150 mg NDC 69721-985-40 NDC 69721-985-80 NDC 69721-985-20 NDC 69721-985-40 NDC 69721-985-80 NDC 69721-985-20	MedboxCam TABLETS, USP 750 mg NDC 69722-985-40 NDC 69722-985-80 NDC 69722-985-20 NDC 69722-985-40 NDC 69722-985-80 NDC 69722-985-20	MedboxCam TABLETS, USP 750 mg NDC 69723-985-40 NDC 69723-985-80 NDC 69723-985-20 NDC 69723-985-40 NDC 69723-985-80 NDC 69723-985-20	MedboxCam TABLETS, USP 750 mg NDC 69724-985-40 NDC 69724-985-80 NDC 69724-985-20 NDC 69724-985-40 NDC 69724-985-80 NDC 69724-985-20
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USE AS DIRECTED

STORAGE: STORE AT CONTROLLED ROOM TEMPERATURE (20°-25°C (68°-77°F)).

MELOXICAM		
MedboxCam label		
Product Information		
Product Type	HUMAN PRESCRIPTION DRUG	NDA Code 208730
Route of Administration	ORAL	INDICATIONS AND USAGE
Active Ingredient/Active Moiety		
Active Ingredient/Active Moiety	Ingredient Name	Strength
MELOXICAM (INN) (V02AG03) (MELOXICAM) (1980V20P0303)	MELOXICAM	75.0 mg
Inactive Ingredients		
Inactive Ingredient	Ingredient Name	Strength
MELOXICAM (1980V20P0303)	MELOXICAM	75.0 mg
MELOXICAM (1980V20P0303)	MELOXICAM	75.0 mg
MELOXICAM (1980V20P0303)	MELOXICAM	75.0 mg
MELOXICAM (1980V20P0303)	MELOXICAM	75.0 mg
MELOXICAM (1980V20P0303)	MELOXICAM	75.0 mg
Product Characteristics		
Color		None
Shape	ROUND	None
Marking	None	None
Contains		
Packaging		
SN Code	Package Description	Marketing Start Date / Marketing End Date
69721-985-40	30 (3.0) TABLETS, PLASTIC, Type B, NDC 69721-985-40	02/08/2022
69721-985-80	60 (6.0) TABLETS, PLASTIC, Type B, NDC 69721-985-80	02/08/2022
69721-985-20	90 (9.0) TABLETS, PLASTIC, Type B, NDC 69721-985-20	02/08/2022
Marketing Information		
Marketing Category	Application Number / Monograph Classification	Marketing Start Date / Marketing End Date
ANDA	208730 / 208730	02/08/2022

Labeler: St. Mary's Medical Park Pharmacy (02650713)

Establishment

Name	Address	RFPN	Business Operation
St. Mary's Medical Park Pharmacy	10000000000000000000	10000000000000000000	10000000000000000000

Revised: 9/2021

St. Mary's Medical Park Pharmacy