

**MELOXICAM: meloxicam tablet**  
**Cipla USA Inc.**

**BRIEF SUMMARY OF PRESCRIBING INFORMATION**

This highlights do not include all the information needed to use MELOXICAM TABLETS safely and effectively. See full prescribing information for MELOXICAM TABLETS.  
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Initial U.S. Approval: 2009

**WARNING RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS**

- For 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 (5.3).**
- **Meloxicam is contraindicated in the setting of coronary artery bypass graft (CABG) surgery (5.1).**
- **NSAIDs cause an increased risk of serious gastrointestinal (GI) adverse events including bleeding, ulceration, and perforation of the stomach or intestines, which can be fatal. These events can occur at any time during use and without warning symptoms. Elderly patients and patients with a prior history of gastric ulcer or disease, and/or GI bleeding are at greater risk for serious GI events (5.2).**

**RECENT MAJOR CHANGES**

Indication and Usage	Nonsteroidal Anti-inflammatory Agents (NSAIDs)
Indication and Usage: Juvenile Rheumatoid Arthritis (JRA)	6/2016
Indication and Usage: Juvenile Rheumatoid Arthritis (JRA)	6/2016
Indication and Usage: Juvenile Rheumatoid Arthritis (JRA)	6/2016
Warnings and Precautions: Cardiovascular Thrombotic Events (5.3)	5/2016
Warnings and Precautions: Heart Failure and Edema (5.7)	5/2016

**INDICATIONS AND USAGE**

- Meloxicam is a non-steroidal anti-inflammatory drug indicated for:
  - Osteoarthritis (OA) (1)
  - Rheumatoid Arthritis (RA) (2)
  - Juvenile Rheumatoid Arthritis (JRA) in patients who weigh ≥60 kg (1,3)

**DOSE AND ADMINISTRATION**

- Use the lowest effective dose for the shortest duration consistent with individual patient's symptoms (2.1).
- OA (1,2) and RA (2,3)
- Starting dose: 7.5 mg once daily
- Dose may be increased to 15 mg once daily
- RA (2,3,4)
- 7.5 mg
- Meloxicam tablets are not interchangeable with approved formulations of oral meloxicam even if the total milligram strength is the same (2.4)

**DOSE FORMS AND STRENGTHS**

- Meloxicam Tablets: 7.5 mg (3)

**CONTRAINDICATIONS**

- Known hypersensitivity to meloxicam or any components 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 (4)

**WARNINGS AND PRECAUTIONS**

- **Cardiovascular Thrombotic Events:** 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 (5.3).
- **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 intestines, which can be fatal. These events can occur at any time during use and without warning symptoms. Elderly patients and patients with a prior history of gastric ulcer or disease, and/or GI bleeding are at greater risk for serious GI events (5.2).
- **Heart Failure and Edema:** NSAIDs can cause these adverse effects of furosemide and thiazide diuretics. Monitor patients to assess these effects including antihypertensive effects (5.7).
- **Hepatic Toxicity:** NSAIDs can cause these adverse effects of furosemide and thiazide diuretics. Monitor patients to assess these effects including antihypertensive effects (5.7).
- **Renal Toxicity:** NSAIDs can cause these adverse effects of furosemide and thiazide diuretics. Monitor patients to assess these effects including antihypertensive effects (5.7).
- **Asymptomatic Hypertension:** NSAIDs can cause these adverse effects of furosemide and thiazide diuretics. Monitor patients to assess these effects including antihypertensive effects (5.7).
- **Low Platelet Reactivity:** NSAIDs can cause these adverse effects of furosemide and thiazide diuretics. Monitor patients to assess these effects including antihypertensive effects (5.7).
- **Other NSAID-Related Effects:** NSAIDs can cause these adverse effects of furosemide and thiazide diuretics. Monitor patients to assess these effects including antihypertensive effects (5.7).

**ADVERSE REACTIONS**

- Most common (≥1%) and greater than placebo adverse events in adults are diarrhea, upper respiratory tract infections, dizziness, and influenza-like symptoms (6.1)
- Adverse events observed in pediatric studies were similar in nature to the adult clinical trial experience (6.1)

**To report SUSPECTED ADVERSE REACTIONS, contact Cipla Limited, India at 1-866-484-3288 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

**DRUG INTERACTIONS**

- **Aspirin:** Aspirin may increase the risk of serious GI bleeding when taken with meloxicam. Concomitant use of aspirin and meloxicam may increase the risk of serious GI bleeding when taken with meloxicam. Concomitant use of aspirin and meloxicam may increase the risk of serious GI bleeding when taken with meloxicam.
- **Diuretics:** NSAIDs can cause these adverse effects of furosemide and thiazide diuretics. Monitor patients to assess these effects including antihypertensive effects (5.7).

**USE IN SPECIFIC POPULATIONS**

- **Cardiovascular Thrombotic Events:** 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 (5.3).
- **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 intestines, which can be fatal. These events can occur at any time during use and without warning symptoms. Elderly patients and patients with a prior history of gastric ulcer or disease, and/or GI bleeding are at greater risk for serious GI events (5.2).

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- Warnings and Precautions (2.5, 6)
- In the setting of coronary artery bypass graft (CABG) surgery [see Warnings and Precautions (5.1)]

## 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 in those with and without known CV disease as risk factors for CV disease. However, patients with known CV disease or risk factors had a higher absolute incidence of excess serious CV thrombotic events, due to their increased overall rate. 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 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)].

#### 5.1.1 Serious 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 days following CABG surgery found an increased incidence of myocardial infarction and stroke. NSAIDs are contraindicated in the setting of CABG [see Contraindications (4)].

#### 5.1.2 MI 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-related death, and all-cause mortality beginning in the first week of treatment. In this same cohort, the incidence of death in the first year post-MI was 20 per 100 person years in NSAID-treated patients compared to 12 per 100 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 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 of 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 occurred in approximately 1% of patients treated for 3-6 months, and in about 2-4% of patients treated for one year. However, even short-term NSAID therapy is not without risk.

#### 5.2.1 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 may 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 gastrointestinal events of fatal GI events occurred in elderly or debilitated patients. Additionally, patients with advanced liver disease and/or coagulopathy are at increased risk for GI bleeding.

#### 5.2.2 Strategies to Minimize the GI Risks in NSAID-Treated Patients:

- Use the lowest effective dose for the shortest 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.
- 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 cardiac prophylaxis, monitor patients more closely for evidence of GI bleeding [see Drug Interactions (7)].

### 5.3 Hepatotoxicity

Elevations of ALT or AST (three or more times the upper limit of normal [ULN]) have been reported in approximately 1% of NSAID-treated patients in clinical trials. In addition, rare, sometimes fatal, cases of severe 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.

Monitor patients for the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, diarrhea, pruritus, jaundice, right upper quadrant tenderness, and "flu-like" symptoms). If clinical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophilia, rash, etc.), discontinue meloxicam immediately, and perform a clinical evaluation of the patient [see Use in Specific Populations (6.6) 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, diuretic 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 Cardiovascular NSAID Trialists' Collaboration meta-analysis of randomized controlled trials has shown an and approximately two-fold increase in hospitalizations for heart failure in COX-2 selective 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)].

Monitor for 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

#### 5.6.1 Renal Toxicity

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

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

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

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

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

#### 5.6.2 Hypokalemia

Increases in serum potassium concentration, including hypokalemia, 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-hypoadrenocorticism state.

### 5.7 Anaphylactic Reactions

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

Seek emergency help if an anaphylactic reaction occurs.

### 5.8 Exacerbation of Asthma Related to Aspirin Sensitivity

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

### 5.9 Serious Skin Reactions

NSAIDs, including meloxicam, can cause serious skin adverse reactions such as exfoliative dermatitis, Stevens-Johnson Syndrome (SJS), and toxic epidermal necrolysis (TEN), which can be fatal. These serious events may occur without warning. Advise patients about the signs and symptoms of serious skin reactions, and to discontinue the use of meloxicam at the first appearance of skin rash or any other sign of hypersensitivity. Meloxicam is contraindicated in patients with previous serious skin reactions to NSAIDs [see Contraindications (4)].

### 5.10 Premature Closure of Fetal Ductus Arteriosus

Meloxicam may cause premature closure of the fetal ductus arteriosus. Avoid use of NSAIDs, including meloxicam, in pregnant women starting at 30 weeks of gestation (third trimester) [see Use in Specific Populations (6.1)].

### 5.11 Hemorrhagic Toxicity

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

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

### 5.12 Masking of Inflammation and Fever

The pharmacological activity of meloxicam in reducing inflammation, and possibly fever, may 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, 5.6)].

## 6 ADVERSE REACTIONS

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

- Cardiovascular Thrombotic Events [see Blood Warnings and Precautions (5.1)]
- GI Bleeding, Ulceration, and Perforation [see Blood Warnings and Precautions (5.1)]
- 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)]
- Hemorrhagic Toxicity [see Warnings and Precautions (5.11)]

### 6.1 Clinical Trial Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical 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 3 clinical trial, diaphis includes 10,122 OA patients and 1012 RA patients treated with meloxicam 7.5 mg daily, 1012 OA patients and 1012 RA patients treated with meloxicam 15 mg daily. Meloxicam at these doses was administered to 661 patients for at least 6 months and to 312 patients for at least one day. Approximately 1/3 of these patients were treated with placebo and/or active-controlled randomized trials and 2/3 of these patients were treated in placebo- and/or active-controlled randomized trials. Gastrointestinal (GI) adverse events were the most frequently reported adverse events in all treatment groups across meloxicam trials.

A 12-week multicenter, double-blind, randomized trial was conducted in patients with osteoarthritis of the knee or hip to compare the efficacy and safety of meloxicam with placebo and with an active control. Two 12-week multicenter, 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 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 Placebo- and Active-Controlled Trial**

	Placebo	Meloxicam 7.5 mg daily	Meloxicam 15 mg daily	Diclofenac 100 mg daily
No. of Patients	137	154	156	153
Gastrointestinal	17.2	20.1	17.3	20.1
Abdominal pain	2.5	1.9	2.6	1.3
Diarrhea	3.8	7.8	3.2	9.2
Dyspepsia	4.5	4.5	4.5	6.5





**Free Fraction:** Hemodialysis did not lower the total drug concentration in plasma; therefore, additional doses are not necessary after hemodialysis. Meloxicam is not dialyzable [see Dosage and Administration (2.1) 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 free NSAID 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)].

**Cholestyramine:** Pre-treatment for four days with cholestyramine significantly increased the clearance of meloxicamly 50%. This resulted in a decrease in  $t_{1/2}$  from 19.2 hours to 12.5 hours, and a 37% 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.

**Cimetidine:** Concurrent administration of 200 mg cimetidine four times daily did not alter the single-dose pharmacokinetics of 10 mg meloxicam.

**Digoxin:** Meloxicam 15 mg once daily for 7 days did not alter the plasma concentration profile of digoxin after <sup>3</sup>H-digoxin administration for 7 days at clinical doses. In vivo 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 21% in subjects receiving lithium doses ranging from 604 to 1072 mg twice daily with meloxicam 15 mg QD every day as compared to subjects receiving lithium alone [see Drug Interactions (7)].

**Methotrexate:** A study in 15 rheumatoid arthritis (RA) patients evaluated the effects of multiple doses of meloxicam on the pharmacokinetics of methotrexate administered weekly. Meloxicam did not have a significant effect on the pharmacokinetics of single doses of methotrexate. In 10m, methotrexate did not displace meloxicam from its human serum binding site [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 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 experience a change in INR and an increased risk of bleeding complication when a new medication is introduced [see Drug Interactions (7)].

## **11 NONCLINICAL TOXICOLOGY**

### **11.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

#### **Carcinogenesis**

There was no increase in tumor incidence in long-term carcinogenicity studies in rats (104 weeks) and mice (93 weeks) administered meloxicam oral doses up to 0.8 mg/kg/day in rats and up to 8.0 mg/kg/day in mice (up to 0.5- and 2.6-doses, respectively, the maximum recommended human dose [MRHD] of 15 mg/day meloxicam based on body surface area [BSA]) compared.

#### **Mutagenesis**

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

#### **Impairment of Fertility**

Meloxicam did not impair male and female fertility in rats at oral doses up to 9 mg/kg/day in males and 5 mg/kg/day in females (up to 5.8- and 3.2-dose groups, respectively, than the MRHD based on BSA comparison).

## **14 CLINICAL STUDIES**

### **14.1 Osteoarthritis and Rheumatoid Arthritis**

The use of meloxicam for the treatment of the signs and symptoms of osteoarthritis of the knee and hip was evaluated in a 12-week, double-blind, controlled trial. Meloxicam (7.5 mg, 7.5 mg, and 15 mg daily) was compared to placebo. The four primary endpoints were investigator's global assessment, patient global assessment, patient pain assessment, and total WOMAC score if 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 measurement of signs and symptoms of osteoarthritis was evaluated in six double-blind, active-controlled trials outside the U.S., ranging from 4 weeks to 6 months' duration. In these trials, the efficacy of meloxicam, in doses of 7.5 mg daily or 15 mg daily, was comparable to placebos or celecoxib 20 mg daily and diclofenac SR 100 mg/day and consistent with the efficacy seen in the U.S. trial.

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

### **14.2 Juvenile Rheumatoid Arthritis (JRA) Polyarticular 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 doses began at 12.5 mg/kg/day (7.5 mg maximum) or 0.25 mg/kg/day (11 mg maximum), and naproxen dosing began at 10 mg/kg/day. One study used these doses throughout the 12-week dosing period, while the other incorporated a titration after 4 weeks to doses of 0.25 mg/kg/day and 0.375 mg/kg/day (22.5 mg maximum of meloxicam and 15 mg/kg/day of naproxen).

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

## **16 HOW SUPPLIED/STORAGE AND HANDLING**

Meloxicam tablets, USP 7.5 mg are yellow colored, round, biconvex tablets, debossed with "158" on one side and "C" on the other.

Meloxicam tablets, USP 15 mg are yellow colored, round, flat beveled tablet, debossed with "CPLA" on one side and "159" on the other.

Meloxicam tablets, USP 7.5 mg are available as follows:

NDC 69097-158-07 Bottles of 100

NDC 69097-158-12 Bottles of 500

NDC 69097-158-15 Bottles of 1000

Meloxicam tablets, USP 15 mg are available as follows:

NDC 69097-159-07 Bottles of 100

NDC 69097-159-12 Bottles of 500

NDC 69097-159-15 Bottles of 1000

#### **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 light container.

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

## **17 PATIENT COUNSELING INFORMATION**

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

Inform patients, families, or other 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)].

#### **Cardiovascular Bleeding, Ulceration, and Perforation**

Advise patients to report symptoms of ulceration and bleeding, including epigastric pain, dyspepsia, reflux, and hematemesis to their healthcare provider. In the setting of concurrent 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, or edema and to contact their healthcare provider if such symptoms occur [see Warnings and Precautions (5.5)].

#### **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 (5.7)].

#### **Serious Skin Reactions**

Advise patients to stop meloxicam immediately if they develop any type of rash and to contact their healthcare provider as soon as possible [see Warnings and Precautions (5.8)].

#### **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 closure of the fetal ductus arteriosus [see Warnings and Precautions (5.10) and Use in Specific Populations (8.1)].

#### **Avoid Concurrent Use with NSAIDs**

Inform patients that the concurrent use of meloxicam with other NSAIDs or salicylates (e.g., difflusal, valsalin) is not recommended due to the increased risk of gastrointestinal toxicity, and little 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 with 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)].

#### **Manufactured by:**

Cipla, Ltd.

Karumbi, India

Manufactured for:

Cipla USA, Inc.

9100 S. Dadeland Blvd., Suite 1500 Miami, FL 33156

Revised: 2/2017

#### **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
- older age
- taking medicines called "corticosteroids," "anticoagulants," "SSRIs," or "SNRIs"
- poor health
- increasing doses of NSAIDs
- longer use of NSAIDs
- smoking
- drinking alcohol

#### **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 redness, swelling, and heat (inflammation) from medical conditions such as different types of arthritis, menstrual cramps, and other types of discomforts.

#### **Who should not take NSAIDs?**

#### **Do not take NSAIDs:**

- if you have 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. Tell to your healthcare provider if you are considering taking NSAIDs during pregnancy. You should not take NSAIDs after 28 weeks of pregnancy.
- are breastfeeding or plan to breastfeed.

Tell your health care 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 health care 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 Non-steroidal Anti-inflammatory Drugs (NSAIDs)?"

• are at a lower risk of heart disease

• heart failure

• liver problems including liver failure

• kidney problems including kidney failure

• low red blood cells (anemia)

• life-threatening skin reactions

• life-threatening allergic reactions

• Other side effects of NSAIDs include: stomach pain, constipation, diarrhea, gas, heartburn, nausea, vomiting, and dizziness.

Get emergency help right away if you get any of the following symptoms:

• Shortness of breath or trouble breathing

• Chest pain

• Swelling in one part or side of your body

• Slurred speech

• Swelling of the face or throat

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

• Nausea

• Stomach or weaker than usual

• Vomiting blood

• There is blood in your bowel movement or it is black

• There is blood in your bowel movement or it is black and sticky like tar

• Skin rash or blisters with fever

• Swelling of the arms, legs, hands and feet

• Flu-like symptoms

If you take too much of your NSAID, call your health care provider or get medical help right away.

There are not all the possible side effects of NSAIDs. For more information, ask your health care 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 brain, stomach, and intestines. Aspirin can also cause ulcers in the stomach and intestines.

• Some NSAIDs are sold in lower doses without a prescription (over-the-counter). Talk to your health care 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 in a condition for which it was not prescribed. Do not give NSAIDs to other people, even if they have the same symptoms that you have. It may harm them.

You would like the more information about NSAIDs, talk with your health care provider. You can ask your pharmacist or health care provider for information about NSAIDs that is written for health professionals.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

Manufactured by:

Cipla Ltd.  
Pune, India

Manufactured for:

Cipla USA, Inc.  
9100 S. Dadeland Blvd., Suite 1500 Miami, FL 33156

Revised: 2/2017

PACKAGE LABEL PRINCIPAL DISPLAY PANEL

NDK-69097-159-07 Rx ONLY

Meloxicam

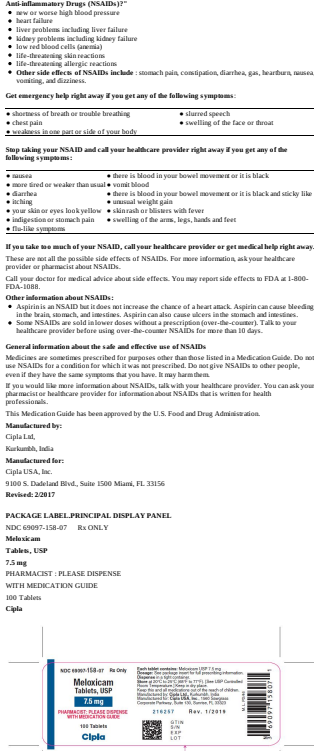
Tablets, USP

7.5 mg

PHARMACY - PLEASE DISPENSE WITH MEDICATION GUIDE

100 Tablets

Cipla



Area for Batch overprinting (Product GTIN, Serial No., Expiry & Lot will be overprinted during commercial packing)

NDK-69097-159-07 Rx ONLY  
Meloxicam  
Tablets, USP  
7.5 mg  
PHARMACY - PLEASE DISPENSE WITH MEDICATION GUIDE  
100 Tablets  
Cipla



Area for Batch overprinting (Product GTIN, Serial No., Expiry & Lot will be overprinted during commercial packing)

MELoxicam			
Medication Guide			
<b>Product Information</b>			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (USDA)	NDK-69097-018
Route of Administration	ORAL		
<b>Active Ingredient/Active Moiety</b>			
Ingredient Name	Strength	Strength	
MELoxicam (UNE VQZQRKXZL) (MELoxicam - UNNEVQZQRKXZL)	MELoxicam	7.5 mg	
<b>Inactive Ingredients</b>			
Ingredient Name	Strength		
MAGNESIUM STEARATE (UNE TQV78K10)			
MAKON AND BARI (UNE TQV78K10)			
SODIUM CITRATE (UNE TQV78K10)			
<b>Product Characteristics</b>			
Color	YELLOW	Shape	86 86097
Mark	ROUND	Mark	86097
Flavor		Supplier Code	C-018
Contains			
<b>Packaging</b>			
# (Item Code)	Package Description	Marketing Start Date	Marketing End Date
1, NDK-69097-018-01	100 in 1 BOTTLE, Type 0, No. 1 Combination Product	07/10/2016	
2, NDK-69097-018-07	100 in 1 BOTTLE, Type 0, No. 1 Combination Product	07/10/2016	
3, NDK-69097-018-02	100 in 1 BOTTLE, Type 0, No. 1 Combination Product	07/10/2016	
<b>Marketing Information</b>			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA077928	07/10/2016	

MELoxicam			
Medication Guide			
<b>Product Information</b>			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (USDA)	NDK-69097-018
Route of Administration	ORAL		
<b>Active Ingredient/Active Moiety</b>			
Ingredient Name	Strength	Strength	
MELoxicam (UNE VQZQRKXZL) (MELoxicam - UNNEVQZQRKXZL)	MELoxicam	7.5 mg	
<b>Inactive Ingredients</b>			
Ingredient Name	Strength		
COLLOIDAL MICROCRYSTALLINE CELLULOSE (UNE TQV78K10)			
MAGNESIUM STEARATE (UNE TQV78K10)			
SODIUM CITRATE (UNE TQV78K10)			
<b>Product Characteristics</b>			
Color	YELLOW	Shape	86 86097
Mark	ROUND	Mark	86097
Flavor		Supplier Code	COR-018
Contains			
<b>Packaging</b>			
# (Item Code)	Package Description	Marketing Start Date	Marketing End Date
1, NDK-69097-018-07	100 in 1 BOTTLE, Type 0, No. 1 Combination Product	07/10/2016	
2, NDK-69097-018-07	100 in 1 BOTTLE, Type 0, No. 1 Combination Product	07/10/2016	
3, NDK-69097-018-02	100 in 1 BOTTLE, Type 0, No. 1 Combination Product	07/10/2016	
<b>Marketing Information</b>			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA077928	07/10/2016	