

ADVERSE REACTIONS

These highlights do not include all the information needed to use meloxicam oral suspension safely and effectively. See full prescribing information for meloxicam oral suspension.

Meloxicam oral suspension
Initial U.S. Approval: 2004

<p>WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS <i>See full prescribing information for complete boxed warning.</i></p> <ul style="list-style-type: none">• 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 (5.1).• Meloxicam oral suspension is contraindicated in the setting of coronary artery bypass graft (CABG) surgery (4, 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 peptic ulcer disease and/or GI bleeding are at greater risk for serious GI events (5.2)
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<p>RECENT MAJOR CHANGES</p> <p>Warnings and Precautions, Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) (5.10) 04/2021</p> <p>Warnings and Precautions, Fetal Toxicity (5.11) 04/2021</p>

<p>INDICATIONS AND USAGE</p> <p>Meloxicam oral suspension is a non-steroidal anti-inflammatory drug indicated for:</p> <ul style="list-style-type: none">• Osteoarthritis (OA) (1.1)• Rheumatoid Arthritis (RA) (1.2)• Juvenile Rheumatoid Arthritis (JRA) in patients 2 years of age or older (1.3)

<p>DOSAGE AND ADMINISTRATION</p> <p>Use the lowest effective dosage for the shortest duration consistent with individual patient treatment goals (2.1)</p> <ul style="list-style-type: none">• OA (2.2) and RA (2.3):<ul style="list-style-type: none">• Starting dose: 7.5 mg once daily• Dose may be increased to 15 mg once daily• JRA (2.4):<ul style="list-style-type: none">• 0.125 mg/kg once daily up to a maximum of 7.5 mg JRA dosing using the oral suspension should be individualized based on the weight of the child (2.4)• Meloxicam oral suspension is not interchangeable with approved formulations of oral meloxicam even if the total milligram strength is the same (2.6)

<p>DOSAGE FORMS AND STRENGTHS</p> <ul style="list-style-type: none">• Meloxicam oral suspension: 7.5 mg/5 mL (3)

<p>CONTRAINDICATIONS</p> <ul style="list-style-type: none">• 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)
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<p>WARNINGS AND PRECAUTIONS</p> <ul style="list-style-type: none">• Hepatotoxicity: Inform patients of warning signs and symptoms of hepatotoxicity. Discontinue if abnormal liver tests persist or worsen or if clinical signs and symptoms of liver disease develop (5.3)• Hypertension: Patients taking one or more antihypertensive medications may have impaired response to these therapies when taking NSAIDs. Monitor blood pressure (5.4, 7)• Heart Failure and Edema: Avoid use of meloxicam oral suspension in patients with severe heart failure unless benefits are expected to outweigh risk of worsening heart failure (5.5)• Renal Toxicity: Monitor renal function in patients with renal or hepatic impairment, heart failure, dehydration, or hypovolemia. Avoid use of meloxicam oral suspension in patients with advanced renal dysfunction unless benefits are expected to outweigh risk of worsening renal function (5.6)• Anaphylactic Reactions: Seek emergency help if an anaphylactic reaction occurs (5.7)• Exacerbation of Asthma Related to Aspirin Sensitivity: Meloxicam oral suspension is contraindicated in patients with aspirin-sensitive asthma. Monitor patients with preexisting asthma (without aspirin sensitivity) (5.8)• Serious Skin Reactions: Discontinue meloxicam oral suspension at first appearance of skin rash or other signs of hypersensitivity (5.9)• Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS): Discontinue and evaluate clinically (5.10)• Fetal Toxicity: Limit use of NSAIDs, including meloxicam oral suspension, between about 20 to 30 weeks in pregnancy due to the risk of oligohydramnios/fetal renal dysfunction. Avoid use of NSAIDs in women at about 30 weeks gestation and later in pregnancy due to the risks of oligohydramnios/fetal renal dysfunction and premature closure of fetal ductus arteriosus (5.11, 8.1)• Hematologic Toxicity: Monitor hemoglobin or hematocrit in patients with any signs or symptoms of anemia (5.12, 7)
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<p>ADVERSE REACTIONS</p> <ul style="list-style-type: none">• Most common (≥5% and greater than placebo) adverse events in adults are diarrhea, upper respiratory tract infections, dyspepsia, 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 Emerald Therapeutics, LLC at (800) 970-1991 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

<p>DRUG INTERACTIONS</p> <ul style="list-style-type: none">• Drugs that Interfere with Hemostasis (e.g., warfarin, aspirin, SSRIs/SNRIs): Monitor patients for bleeding who are concomitantly taking meloxicam oral suspension with drugs that interfere with hemostasis. Concomitant use of meloxicam oral suspension and analgesic doses of aspirin is not generally recommended (7)• ACE Inhibitors, Angiotensin Receptor Blockers (ARBs) or Beta-Blockers: Concomitant use with meloxicam oral suspension may diminish the antihypertensive effect of these drugs. Monitor blood pressure (7)• ACE Inhibitors and ARBs: Concomitant use with meloxicam oral suspension in elderly, volume-depleted, or those with renal impairment may result in deterioration of renal function. In such high risk patients, monitor for signs of worsening renal function (7)• Diuretics: NSAIDs can reduce natriuretic effect of furosemide and thiazide diuretics. Monitor patients to assure diuretic efficacy including antihypertensive effects (7)
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<p>USE IN SPECIFIC POPULATIONS</p> <ul style="list-style-type: none">• Infertility: NSAIDs are associated with reversible infertility. Consider withdrawal of meloxicam oral suspension in women who have difficulties conceiving (8.3)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 04/2022

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* Sections or subsections omitted from the full prescribing information are not listed.

<p>WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS <i>See full prescribing information for complete boxed warning.</i></p> <ul style="list-style-type: none">• 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 <i>Warnings and Precautions</i> (5.1)].• Meloxicam oral suspension is contraindicated in the setting of coronary artery bypass graft (CABG) surgery [see <i>Contraindications</i> (4) and <i>Warnings and Precautions</i> (5.1)]. <p>Gastrointestinal Bleeding, Ulceration, and Perforation</p> <ul style="list-style-type: none">• NSAIDs cause an increased risk of serious gastrointestinal (GI) adverse events including bleeding, ulceration, and perforation of the stomach or intestines, which can be fatal. These events can occur at any time during use and without warning symptoms. Elderly patients and patients with a prior history of peptic ulcer disease and/or GI bleeding are at greater risk for serious GI events [see <i>Warnings and Precautions</i> (5.2)].

<p>1 INDICATIONS AND USAGE</p> <p>1.1 Osteoarthritis (OA)</p> <p>Meloxicam oral suspension is indicated for relief of the signs and symptoms of osteoarthritis [see <i>Clinical Studies</i> (14.1)].</p>
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<p>1.2 Rheumatoid Arthritis (RA)</p> <p>Meloxicam oral suspension is indicated for relief of the signs and symptoms of rheumatoid arthritis [see <i>Clinical Studies</i> (14.1)].</p>
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<p>1.3 Juvenile Rheumatoid Arthritis (JRA) Pauciarticular and Polyarticular Course</p> <p>Meloxicam oral suspension is indicated for relief of the signs and symptoms of pauciarticular or polyarticular course Juvenile Rheumatoid Arthritis in patients 2 years of age and older [see <i>Clinical Studies</i> (14.2)].</p>

<p>2 DOSAGE AND ADMINISTRATION</p>

<p>2.1 General Dosing Instructions</p> <p>Carefully consider the potential benefits and risks of meloxicam oral suspension and other treatment options before deciding to use meloxicam oral suspension. Use the lowest effective dosage for the shortest duration consistent with individual patient treatment goals [see <i>Warnings and Precautions</i> (5)].</p> <p>After observing the response to initial therapy with meloxicam oral suspension, adjust the dose to suit an individual patient's needs.</p> <p>In adults, the maximum recommended daily oral dose of meloxicam oral suspension is 15 mg regardless of formulation. In patients with hemodialysis, a maximum daily dosage of 7.5 mg is recommended [see <i>Use in Specific Populations</i> (8.7) and <i>Clinical Pharmacology</i> (12.3)].</p> <p>Meloxicam oral suspension 7.5 mg/5 mL or 15 mg/10 mL may be substituted for meloxicam tablets 7.5 mg or 15 mg, respectively.</p>

Shake the oral suspension gently before using.

Meloxicam oral suspension may be taken without regard to timing of meals.

<p>2.2 Osteoarthritis</p> <p>For the relief of the signs and symptoms of osteoarthritis the recommended starting and maintenance oral dose of meloxicam oral suspension is 7.5 mg once daily. Some patients may receive additional benefit by increasing the dose to 15 mg once daily.</p>

<p>2.3 Rheumatoid Arthritis</p> <p>For the relief of the signs and symptoms of rheumatoid arthritis, the recommended starting and maintenance oral dose of meloxicam oral suspension is 7.5 mg once daily. Some patients may receive additional benefit by increasing the dose to 15 mg once daily.</p>
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<p>2.4 Juvenile Rheumatoid Arthritis (JRA) Pauciarticular and Polyarticular Course</p> <p>To improve dosing accuracy in smaller weight children, the use of the meloxicam oral suspension is recommended. Meloxicam oral suspension is available in the strength of 7.5 mg/5 mL. For the treatment of juvenile rheumatoid arthritis, the recommended oral dose of meloxicam oral suspension is 0.125 mg/kg once daily up to a maximum of 7.5 mg. There was no additional benefit demonstrated by increasing the dose above 0.125 mg/kg once daily in these clinical trials.</p>
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Juvenile Rheumatoid Arthritis dosing using the oral suspension should be individualized based on the weight of the child:

	0.125 mg/kg
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	Dose	0.125 mg/kg
Weight	(1.5 mg/mL)	Delivered dose
12 kg (26 lb)	1.0 mL	1.5 mg
24 kg (54 lb)	2.0 mL	3.0 mg
36 kg (80 lb)	3.0 mL	4.5 mg
48 kg (106 lb)	4.0 mL	6.0 mg
≥60 kg (132 lb)	5.0 mL	7.5 mg

<p>2.5 Renal Impairment</p> <p>The use of meloxicam oral suspension in subjects with severe renal impairment is not recommended. In patients on hemodialysis, the maximum dosage of meloxicam oral suspension is 7.5 mg per day [see <i>Clinical Pharmacology</i> (12.3)].</p>

<p>2.6 Non-Interchangeability with Other Formulations of Meloxicam</p> <p>Meloxicam oral suspension has not shown equivalent systemic exposure to other approved formulations of oral meloxicam. Therefore, meloxicam oral suspension is 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 oral suspension with other formulations of oral meloxicam product.</p>
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<p>3 DOSAGE FORMS AND STRENGTHS</p>
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<p>Meloxicam oral suspension:</p> <ul style="list-style-type: none">• yellowish green tinged viscous suspension containing 7.5 mg meloxicam per 5 mL.

<p>4 CONTRAINDICATIONS</p>

<p>Meloxicam oral suspension is contraindicated in the following patients:</p> <ul style="list-style-type: none">• Known hypersensitivity (e.g., anaphylactic reactions and serious skin reactions) to meloxicam or any components of the drug product [see <i>Warnings and Precautions</i> (5.7, 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 <i>Warnings and Precautions</i> (5.7, 5.8)]• In the setting of coronary artery bypass graft (CABG) surgery [see <i>Warnings and Precautions</i> (5.1)]

<p>5 WARNINGS AND PRECAUTIONS</p>
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<p>5.1 Cardiovascular Thrombotic Events</p> <p>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 or risk factors for CV disease. However, patients with known CV disease or risk factors had a higher absolute incidence of excess serious CV thrombotic events, due to their increased baseline 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.</p>

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)].

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

<p>5.2 Gastrointestinal Bleeding, Ulceration, and Perforation</p> <p>NSAIDs, including meloxicam, can cause serious gastrointestinal (GI) adverse events including inflammation, bleeding, ulceration, and perforation of the esophagus, stomach, small intestine, or large intestine, which can be fatal. These serious adverse events can occur at any time, with or without warning symptoms, in patients treated with NSAIDs. Only one in five patients who develop a serious upper GI adverse event on NSAID therapy is symptomatic. Upper GI ulcers, gross bleeding, or perforation caused by NSAIDs occur in approximately 1% of patients treated for 3-6 months, and in about 2-4% of patients treated for one year. However, even short-term NSAID therapy is not without risk.</p>

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

<p>Strategies to Minimize the GI Risks in NSAID-treated patients:</p> <ul style="list-style-type: none">• Use the lowest effective dosage for the shortest possible duration.• Avoid administration of more than one NSAID at a time.• Heart Failure and Edema: 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 oral suspension 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 <i>Drug Interactions</i> (7)].
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<p>5.3 Hepatotoxicity</p> <p>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.</p>
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<p>Elevations of ALT or AST (less than three times ULN) may occur in up to 15% of patients treated with NSAIDs including meloxicam.</p>

Inform patients of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, diarrhea, pruritus, jaundice, right upper quadrant tenderness, and "flu-like" symptoms). If clinical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophilia, rash, etc.), discontinue meloxicam oral suspension immediately, and perform a clinical evaluation of the patient [see *Use in Specific Populations* (8.6) and *Clinical Pharmacology* (12.3)].

<p>5.4 Hypertension</p> <p>NSAIDs, including meloxicam oral suspension, 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 <i>Drug Interactions</i> (7)].</p>
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Monitor blood pressure (BP) during the initiation of NSAID treatment and throughout the course of therapy.

<p>5.5 Heart Failure and Edema</p> <p>The Coxib and traditional NSAID Trialists' 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.</p>

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)].

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

<p>5.6 Renal Toxicity and Hyperkalemia</p> <p>Renal Toxicity</p> <p>Long-term administration of NSAIDs, including meloxicam oral suspension, has resulted in renal papillary necrosis, renal insufficiency, acute renal failure, and other renal injury.</p>
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Renal toxicity has also been seen in patients in whom renal prostaglandins have a compensatory role in the maintenance of renal perfusion. In these patients, administration of an NSAID may cause a dose-dependent reduction in prostaglandin formation and, secondarily, in renal blood flow, which may precipitate overt renal decompensation. Patients at greatest risk of this reaction are those with impaired renal function, 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 to the pretreatment state.

The renal effects of meloxicam oral suspension may hasten the progression of renal dysfunction in patients with preexisting renal disease. Because some meloxicam oral suspension 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 oral suspension. Monitor renal function in patients with renal or hepatic impairment, heart failure, dehydration, or hypovolemia during use of meloxicam oral suspension [see *Drug Interactions* (7)].

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

<p>Hyperkalemia</p> <p>Increases in serum potassium concentration, including hyperkalemia, have been reported with use of NSAIDs, even in some patients without renal impairment. In patients with normal renal function, these effects have been attributed to a hyporeninemic-hypoaldosteronism state.</p>

<p>5.7 Anaphylactic Reactions</p> <p>Meloxicam has been associated with anaphylactic reactions in patients with and without known hypersensitivity to meloxicam and in patients with aspirin-sensitive asthma [see <i>Contraindications</i> (4) and <i>Warnings and Precautions</i> (5.8)].</p>
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Seek emergency help if an anaphylactic reaction occurs.

<p>5.8 Exacerbation of Asthma Related to Aspirin Sensitivity</p> <p>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 oral suspension is contraindicated in patients with this form of aspirin sensitivity [see <i>Contraindications</i> (4)]. When meloxicam oral suspension is used in patients with preexisting asthma (without known aspirin sensitivity), monitor patients for changes in the signs and symptoms of asthma.</p>

<p>5.9 Serious Skin Reactions</p> <p>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 oral suspension at the first appearance of skin rash or any other sign of hypersensitivity. meloxicam oral suspension is contraindicated in patients with previous serious skin reactions to NSAIDs [see <i>Contraindications</i> (4)].</p>

<p>5.10 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)</p> <p>Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) has been reported in patients taking NSAIDs such as meloxicam oral suspension. Some of these events have been fatal or life-threatening. DRESS typically, although not exclusively, presents with fever, rash, lymphadenopathy, and/or facial swelling. Other clinical manifestations may include hepatitis, nephritis, hematological abnormalities, myocarditis, or myositis. Sometimes symptoms of DRESS may resemble an acute viral infection. Eosinophilia is often present. Because this disorder is variable in its presentation, other organ systems not noted here may be involved. It is important to note that early manifestations of hypersensitivity, such as fever or lymphadenopathy, may be present even though rash is not evident. If such signs or symptoms are present, discontinue meloxicam oral suspension and evaluate the patient immediately.</p>

<p>5.11 Fetal Toxicity</p> <p>Premature Closure of Fetal Ductus Arteriosus</p> <p>Avoid use of NSAIDs, including meloxicam oral suspension, in pregnant women at about 30 weeks gestation and later. NSAIDs, including meloxicam oral suspension, increase the risk of premature closure of the fetal ductus arteriosus at approximately this gestational age.</p>
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Oligohydramnios/Neonatal Renal Impairment

Use of NSAIDs, including meloxicam oral suspension, at about 20 weeks gestation or later in pregnancy may cause fetal renal dysfunction leading to oligohydramnios and, in some cases, neonatal renal impairment. These adverse outcomes are seen, on average, after days to weeks of treatment, although oligohydramnios has been infrequently reported as soon as 48 hours after NSAID initiation.

Oligohydramnios is often, but not always, reversible with treatment discontinuation. Complications of prolonged oligohydramnios may, for example, include limb contractures and delayed lung maturation. In some postmarketing cases of impaired neonatal renal function, invasive procedures such as exchange transfusion or dialysis were required.

NSAID treatment is necessary between about 20 weeks and 30 weeks gestation. Limit meloxicam oral suspension use to the lowest effective dose and shortest duration possible. Consider ultrasound monitoring of amniotic fluid if meloxicam oral suspension treatment extends beyond 48 hours. Discontinue meloxicam oral suspension if oligohydramnios occurs and follow up according to clinical practice [see *Use in Specific Populations* (8.1)].

<p>5.12 Hematologic Toxicity</p> <p>Anemia has occurred in NSAID-treated patients. This may be due to occult or gross blood loss, fluid retention, or an incompletely described effect on erythropoiesis. If a patient treated with meloxicam oral suspension has any signs or symptoms of anemia, monitor hemoglobin or hematocrit.</p>

NSAIDs, including meloxicam oral suspension, 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 this risk. Monitor these patients for signs of bleeding [see *Drug Interactions* (7)].

<p>5.13 Masking of Inflammation and Fever</p> <p>The pharmacological activity of meloxicam oral suspension in reducing inflammation, and possibly fever, may diminish the utility of diagnostic signs in detecting infections.</p>

5.14 Laboratory Monitoring

Because serum 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)].

<p>6 ADVERSE REACTIONS</p>

<p>The following adverse reactions are discussed in greater detail in other sections of the labeling:</p> <ul style="list-style-type: none">• Cardiovascular Thrombotic Events [see <i>Boxed Warning and Warnings and Precautions</i> (5.1)]• GI Bleeding, Ulceration, and Perforation [see <i>Boxed Warning and Warnings and Precautions</i> (5.2)]• Hepatotoxicity [see <i>Warnings and Precautions</i> (5.3)]• Hypertension [see <i>Warnings and Precautions</i> (5.4)]• Heart Failure and Edema [see <i>Warnings and Precautions</i> (5.5)]• Renal Toxicity and Hyperkalemia [see <i>Warnings and Precautions</i> (5.6)]• Anaphylactic Reactions [see <i>Warnings and Precautions</i> (5.7)]• Serious Skin Reactions [see <i>Warnings and Precautions</i> (5.9)]• Hematologic Toxicity [see <i>Warnings and Precautions</i> (5.12)]

<p>6.1 Clinical Trials Experience</p> <p>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.</p>

<p>Adults</p> <p>Osteoarthritis and Rheumatoid Arthritis</p> <p>The meloxicam Phase 2/3 clinical trial database includes 10,122 OA patients and 1012 RA patients treated with meloxicam 7.5 mg/day, 3505 OA patients and 1351 RA patients treated with meloxicam 15 mg/day. Meloxicam at these doses was administered to 661 patients for at least 6 months and to 312 patients for at least one year. Approximately 10,500 of these patients were treated in ten placebo- and/or active-controlled osteoarthritis trials and 2363 of these patients were treated in ten 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.</p> <p>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.</p>

<p>Table 1a depicts adverse events that occurred in ≥2% of the meloxicam treatment groups in a 12-week placebo- and active-controlled osteoarthritis trial.</p>

<p>Table 1b depicts adverse events that occurred in ≥2% of the meloxicam treatment</p>
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