

4 CONTRAINDICATIONS

Meloxicam is contraindicated in the following patients:

- Known hypersensitivity (e.g., anaphylactic reactions and serious skin reactions) to meloxicam or any component of the drug product (see WARNINGS AND PRECAUTIONS (7, 5.3))
- 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 (7, 5.3))
- 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 or risk factors for CV disease. However, patients with known CV disease or risk factors had a higher absolute increase in excess serious CV thrombotic events in those with increased baseline risk. Some observational studies found that this increased risk of serious CV thrombotic events began as early as the first weeks of treatment. The increase in CV thrombotic risk has been observed most consistently at higher doses.

To minimize the potential risk for an adverse CV event in NSAID-treated patients, use the lowest effective dose for the shortest duration possible. Physicians and patients should 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 NSAID, such as meloxicam, increases the risk of serious gastrointestinal (GI) events (see WARNINGS AND PRECAUTIONS (5.2)).

5.2 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 to 14 days following CABG surgery found an increased incidence of major cardiac morbidity and mortality. NSAIDs are contraindicated in the setting of CABG (see CONTRAINDICATIONS (4)).

5.3 Peptic Ulcers

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 weeks 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 in ten 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 to 6 months, and in about 2 to 4% of patients treated for one year. However, even shorter-term NSAID therapy is not without risk.

5.3 Risk Factors for GI Bleeding, Ulceration, and Perforation

Patients with a prior history of peptic ulcer disease and/or GI bleeding who used NSAIDs had a greater than 10-fold increased risk for developing a GI bleed compared to patients without these risk factors. Other factors that increase the risk of GI bleeding in patients treated with NSAIDs include longer duration of NSAID therapy; concomitant use of oral corticosteroids, aspirin, anticoagulants, or antiplatelet agents; concomitant use of SSRIs and serotonin reuptake inhibitors (SRIIs); history of alcoholism; older age and poor general health status. Most gastrointestinal 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.

5.4 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.
- 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 concurrent 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.

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 immediately, and perform a clinical evaluation of the patient (see USE IN SPECIFIC POPULATIONS (6)) and CLINICAL PHARMACOLOGY (12.3).

5.4 Hypertension

NSAIDs, including meloxicam, can lead to new onset or worsening of pre-existing hypertension, either of which may contribute to the increased risk of serious 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 Cardio and additional NSAID Trials¹ Collaboration meta-analysis of randomized controlled trials found an overall 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 the 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)).

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

5.6 Renal Toxicity and Hypokalemia

Renal Toxicity

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

Renal toxicity has also been seen in patients in whom renal prostaglandins have a compensatory role in the maintenance of renal perfusion. In these patients, administration of a 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 may be enhanced by the progression of renal dysfunction in patients with pre-existing 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)).

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-hypoadrenorenemic 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 (5.3)).

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 pre-existing asthma (without known aspirin sensitivity), monitor patients for changes in the signs and symptoms of asthma.

5.9 Serious Skin Reactions

NSAIDs, including meloxicam, can cause serious skin adverse reactions such as exfoliative dermatitis, Stevens-Johnson Syndrome (SJS), and toxic epidermal necrolysis (TEN), which can be fatal. These serious events may occur without warning. Inform patients about the signs and symptoms of serious skin reactions, and to discontinue the use of meloxicam at the first appearance of this 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 (6.1)).

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 incompletely described 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 concurrent use of warfarin, other anticoagulants, aspirin, aspirin, serotonin reuptake inhibitors (SRIIs) and serotonin norepinephrine reuptake inhibitors (SNRIs) may increase this risk. Monitor these patients for signs of bleeding (see DRUG INTERACTIONS (7)).

5.12 Masking of Inflammation and Fever

The pharmacologic 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 (7.2, 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 **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 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 2B clinical trial database includes 10,122 OA patients and 1012 RA patients treated with meloxicam 7.5 mg/day, 15 mg OA patients and 151 RA patients treated with meloxicam 15 mg/day. Meloxicam at these doses was administered to 661 patients for at least 6 months and to 312 patients for at least one year. Approximately 10,500 of these patients were treated in placebo- and/or active-controlled osteoarthritis trials and 5363 of these patients were treated in no placebo- and/or active-controlled rheumatoid arthritis trials. Gastrointestinal (GI) adverse events were the most frequently reported adverse events in all treatment groups across meloxicam trials.

A 12-week multicenter, double-blind, randomized trial was conducted in patients with osteoarthritis of the knee to help 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.

severe hepatic impairment (Child-Pugh Class III) have not been adequately studied. **WARNINGS AND PRECAUTIONS (5.3) and USE IN SPECIFIC POPULATIONS (8.6).**

Renal Impairment:

Metformin pharmacokinetics have been investigated in subjects with mild and moderate renal impairment. Total drug plasma concentrations of metformin decreased and total clearance of metformin increased with the degree of renal impairment and this for AUC values were similar in all groups. The higher metformin clearance in subjects with renal impairment may be due to increased fraction of metformin excreted in urine which is suitable 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 metformin in subjects with severe renal impairment is not recommended. **see DOSAGE AND ADMINISTRATION (2.5), WARNINGS AND PRECAUTIONS (5.3) and USE IN SPECIFIC POPULATIONS (8.7).**

Hemodialysis:

Following a single dose of metformin, the free C_{max} plasma concentrations were higher in patients with renal failure as chronic hemodialysis (3% free fraction) in comparison to healthy volunteers (8.3% free fraction). Hemodialysis did not lower the total drug concentration in plasma, therefore, additional doses are not necessary after hemodialysis. Metformin 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 free NSAID was not altered. When metformin is administered with aspirin (1000 mg three times daily) to healthy volunteers, it tended to increase the AUC (10%) and C_{max} (24%) of metformin. The clinical significance of this interaction is not known. See Table 1 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 metformin by 50%. This resulted in a decrease in $t_{1/2}$ from 19.2 hours to 12.5 hours, and a 35% reduction in AUC. This suggests the existence of a recirculating pathway for metformin in the gastrointestinal tract. The clinical relevance of this interaction has not been established.

Cimetidine:

Concomitant administration of 300 mg cimetidine four times daily did not alter the single-dose pharmacokinetics of 30 mg metformin.

Digoxin:

Metformin 15 mg once daily for 7 days did not alter the plasma concentration profile of digoxin after β -acetylglucosylaminidase for 7 days at clinical doses. In vitro testing found no protein binding drug interaction between digoxin and metformin.

Lithium:

In a study conducted in healthy subjects, mean pre-dose lithium concentration and AUC were increased by 23% in subjects receiving lithium doses ranging from 18 to 1072 mg twice daily with metformin 15 mg QD every day as compared to subjects receiving lithium alone. **see DRUG INTERACTIONS (7).**

Metformin:

A study in 13 rheumatoid arthritis (RA) patients evaluated the effects of multiple doses of metformin on the pharmacokinetics of methotrexate taken once weekly. Metformin did not have a significant effect on the pharmacokinetics of single doses of methotrexate. In vivo, methotrexate did not displace metformin from its human serum binding sites. **see DRUG INTERACTIONS (7).**

Warfarin:

The effect of metformin 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, metformin 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 metformin with warfarin since patients on warfarin may experience changes in INR and increased risk of bleeding complications when a new medication is introduced. **see DRUG INTERACTIONS (7).**

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis:

There was no increase in tumor incidence in long-term carcinogenicity studies in rats (104 weeks) and mice (79 weeks) administered metformin oral doses up to 0.8 mg/kg/day in rats and up to 8.0 mg/kg/day in mice (up to 5.5- and 26.0-times, respectively, the maximum recommended human dose (MRHD) of 15 mg/kg/day metformin based on body surface area (BSA) comparison).

Mutagenesis:

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

Impairment of Fertility:

Metformin 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-times greater, respectively, than the MRHD based on BSA comparison).

14 CLINICAL STUDIES

14.1 Osteoarthritis and Rheumatoid Arthritis

The use of metformin 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. Metformin (7.5 mg, 15 mg, and 22.5 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 (a self-administered questionnaire addressing pain, function, and stiffness). Patients on metformin 7.5 mg daily and metformin 15 mg daily showed significant improvement in each of these endpoints compared with placebo.

The use of metformin 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 6 months duration. In these trials, the efficacy of metformin in doses of 7.5 mg/day and 15 mg/day was comparable to celecoxib 20 mg/day and diclofenac SR 100 mg/day and consistent with the efficacy seen in the U.S. trial.

The use of metformin for the treatment of the signs and symptoms of rheumatoid arthritis was evaluated in a 12-week, double-blind, controlled multinational trial. Metformin (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 metformin 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) Pauciarticular and Polyarticular Course

The use of metformin 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 metformin. In both studies, metformin 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. The study with two doses of metformin over the 12-week dosing period with the other incorporated a transition after 4 weeks to doses of 0.25 mg/kg/day and 0.375 mg/kg/day (22.5 mg maximum) of metformin and 15 mg/kg/day of naproxen.

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

16 HOW SUPPLIED/STORAGE AND HANDLING

Product 63629-6707

NDC 63629-6707-40 TABLET in a BOTTLE

NDC 63629-6707-2-30 TABLET in a BOTTLE

17 PATIENT COUNSELING INFORMATION

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

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

Cardiovascular Thrombotic Events

Advise patients to be alert for the symptoms of cardiovascular thrombotic events, including chest pain, shortness of breath, weakness, or slurring of speech, and to report any of these symptoms to their healthcare provider immediately. **see WARNINGS AND PRECAUTIONS (5.1).**

Gastrointestinal Bleeding, Ulceration, and Perforation

Advise patients to report symptoms of ulceration and bleeding, including epigastric pain, dyspepsia, indigestion, 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).**

Hepatic Injury

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 metformin 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 consult 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 (5.7).**

Serious Skin Reactions

Advise patients to stop metformin immediately if they develop any type of rash and to consult their healthcare provider as soon as possible. **see WARNINGS AND PRECAUTIONS (5.8).**

Fertility/Fecundity

Advise females of reproductive potential who desire pregnancy that NSAIDs, including metformin, 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 metformin 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 (5.4) and USE IN SPECIFIC POPULATIONS (8.1).**

Avoid Concomitant Use of NSAIDs

Inform patients that the concomitant use of metformin with other NSAIDs or salicylates (e.g., difflunisal, ibuprofen) 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 of NSAIDs and Low-Dose Aspirin

Inform patients not to use low-dose aspirin concomitantly with metformin until they talk to their healthcare provider. **see DRUG INTERACTIONS (7).**

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Metformin Tablets USP

(met-DIX-I-kame)

7.5 mg and 15 mg

Rx Only

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:
 - as you drink, eat
 - without warning symptoms
 - that may cause death

The risk of getting an ulcer or bleeding increases with:

- past history of ulcers, ulcers, or ulcers or intestinal bleeding with use of NSAIDs
- taking medicines called "corticosteroids," "anticoagulants," "SSRIs," or "SNRIs"
- increasing doses of NSAIDs
- longer use of NSAIDs
- smoking
- drinking alcohol
- older age
- poor health
- advanced liver disease
- 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?

