## MELOXICAM - meloxicam tablet RPK Pharmaceuticals, Inc.

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

## MELOXICAM Tablets USP, for oral use Initial U.S. Approval: 2000

-	WARNING: RISK OF SERIOUS CARDIOVASCIII AR AND GASTROINTESTINAL EVENTS
	WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS
	See full prescribing information for complete boxed warning.
	<ul> <li>Nonsteroidal anti-inflammatory drugs (INSADs) cause an increased risk of serious cardiovascular thrombotic events, including mycardial infraction and stroke, which can be fatal. This risk may occur early in treatment and may increase with duration of use (5.1)</li> <li>Meioxicam tablets are contraindicated in the setting of coronary artery bypass graft (CABG) surver (4.5.1)</li> </ul>
ľ	NSADs 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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DOSAGE AND ADMINISTRATION the lowest effective dosage for the shortest duration consistent with individual patient treatment goals Use th (2.1)

## (2.2) and RA (2.3):

Starting dose: 7.5 mg once daily Dose may be increased to 15 mg once daily • JRA (2.4):

7.5 mg once daily in children ≈60 kg • Meloxicam Tablets are not interchangeable with approved formulations of oral meloxicam even if the total milligram strength is the same (2.6)

## Meloxicam Tablets USP: 7.5 mg and 15 mg (3)

CONTRANDUCATIONS
 Control of the drug product (4)
 Known hypersensibility to meloscam of any components of the drug product (4)
 In the setting of CABG surgery (4)
 In the setting of CABG surgery (4)

- evaluate chically (5.10) <u>Figuit Toscy</u>: Unit use of KSADS, including Melosicam, between about 20 to 30 weeks in prognancy <u>date to be fish of display/parameterization of the productions</u>. Avoid use of KSADB, in women at about 30 permature course of the field actuate antiference in a set of the production of the production of the <u>Hermiterization</u> of the field actuate antiference in a set of the production of the production of the field actuate <u>Hermiterization</u> of the field actuate antiference in a set of the production of the production of the field actuate antiference in a set of the production of the field actuate antiference in a set of the production of the p
- Most common LSSs and genater than blacked blackers a workt in soldness are derived, upper
  merginatory tract electronic, systeppid, and inflamenza like systeptions (6.1)
   Adverse events observed in pediatric studies were similar in nature to the adult clinical tral experience
  (6.1)

(6.1) To report SUPPCTED ADVERSE REACTONE, contact Unichem Pharmaceuticals (USA), Inc. at Least SALASI as rPAR at 1.860/PCI. Support Interface and the International Control International Internat

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## FULL PRESCRIBING INFORMATION

WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS

- EVENTS Cardiovascular-Thrombotic Events Notstroidal anti-Inflammatory drugg (INSAIDs) cause an increased infarction and stroke, which can be fatal. This risk any occur sarly the stroke and the stroke of the stroke the stroke and the stroke of the treatment and may increase with duration of use [see Warnings and Metodocan tables are contraindicated in the setting of coronary artery bypass graft (CABG) surgery [see Contraindications (4) and Warnings and Presaultons [5, 1].

Warnings and Precautions (5.1); <u>activationstand Beeding, Ukeraton, and Perforation</u> • NSADs cause an increased risk of serious gastrointestinal (GI) adverse events including bleeding, ukeration, and perforation of the adverse avents including bleeding, ukeration, and performation of the say time during use and without varining symptoms. Edenty patients and patients with a prior history of peptic uker disease and/or GI bleeding are at greater risk for serious GI events [see Warnings and Precautions (2.5)].

## 1 INDICATIONS AND USAGE

1.1 Osteoarthritis (OA) Meloxicam tablets are indicated for relief of the signs and symptoms of osteoarthritis [see Clinical Studies (14.1)].

1.2 Rheumatoid Arthritis (RA) Meloxicam tablets are indicated for relief of the signs and symptoms of rheumatoid arthritis [see Clinical Studies (14.1)].

1.3 Juvenile Rheumatoid Arthritis (JRA) Pauciarticular and Polyarticular Course Mebxicam tablets are indicated for relief of the signs and symptoms of pauciarticular or polyarticular course juvenile Rheumatoid Arthritis in patients who weigh 260 kg [see Dosage and Admistration (2.4) and Chical Studies (14.2)].

## 2 DOSAGE AND ADMINISTRATION 2.1 General Dosing Instructions

Carefully consider the potential benefits and risks of Meloxicam tablets and other

# treatment options before deciding to use Meloxicam tablets. Use the lowest effective dosage for the shortest duration consistent with individual patient treatment goals [see Warnings and Precautions (5)].

# After observing the response to initial therapy with Meloxicam tablets, adjust the dose to suit an individual patient's needs.

In aduts, the maximum recommended daily oral dose of Meloxicam tablets is 15 mg regardless of formulation. In patients with hemodialysis, a maximum daily dosage of 7.5 mg is recommended [see Use in Specific Populations (8.7) and Clinical Pharmacobgy (12.3)].

## xicam tablets may be taken without regard to timing of meals.

2 2 Osteoarthritis

For the relief of the signs and symptoms of osteoarthritis the recommended starting and maintenance oral dose of Meloxicam tablets is 7.5 mg once daily. Some patients may receive additional benefit by increasing the dose to 15 mg once daily.

## 2.3 Rheumatoid Arthritis

For the relief of the signs and symptoms of rheumatoid arthritis, the recommended starting and maintenance oral dose of Meloxicam tablets is 7.5 mg once daily. Some patients may receive additional benefit by increasing the dose to 15 mg once daily.

# 2.4 Juvenile Rheumatoid Arthritis (JRA) Pauciarticular and Polyarticular Course

For the treatment of juvenile rheumatoli arthritis, the recommended oral dose of Mebxicam tablets is 7.5 mg once daily in children who weigh z60 kg. There was no additional benefit demonstrated by increasing the dose above 7.5 mg in chincal trials. Mebxicam tablets should not be used in children who weigh <60 kg.

2.5 Renal Impairment The use of Meloxicam tablets in subjects with severe renal impairment is r recommended.

# In patients on hemodialysis, the maximum dosage of Meloxicam tablets is 7.5 mg per day [see Clinical Pharmacology (12.3)].

2.6 Non-Inter-changeability with Other Formulations of Meloxkam Meloxkam tablets have not shown equivalent systemic exposure to other approve formulations of oral meloxicam. Therefore, Meloxicam tablets are not interchangeal the same. Do not substitute similar does strengths of Meloxicam tablets with other formulations of on interlockam product.

## **3 DOSAGE FORMS AND STRENGTHS**

Moxicam Tables USP: • 7.5 mg: Lipit yellow, conducting the beneficient edged, tablet with U & L debossed on one • 5 mg: Lipit yellow, capsule and table boorners, tablet with U & L debossed on one side and 15 debossed centrally on the other side

### 4 CONTRAINDICATIONS

# CONTRAINDICATIONS Medician tables are contraindicated in the following patients: Now hypertensibility (e.g., matryback: nections and success that near-tions) to Now thy presentability (e.g., matryback: nections and success that near-time) (5.7, 5.9) History of sisthma, utricarle, or other allergic-type reactions after taking applin or reported in such patients (see Wernings and Preculations (5.7, 5.8)) In the setting of coronary aftery typess graft (CABG) surgery (see Warnings and Preculations (5.7, 5.9))

## 5 WARNINGS AND PRECAUTIONS

5.1 Cardiovascular Thrombotic Events 5.1 Cardiovascular Thrombotic Events Cinclaritatis of several COX-2 sectice and nonselective HS4Ds of up to three years duration have shown an increased risk of serious cardiovascular (C) (Thrombotic events) and the section of the series of the section of the section of the selective of the section of the section of the section of the section and the section of the section of the section of the section of the section as a section of the section of the section of the section of the section as a section of the section of the section of the section of the section absolute increase in serious CV thrombotic events, due to the increase in CV absolute increase in serious CV thrombotic events, due to the increase in CV absolute increase in the section of the section of the three section of the section of the absolute increase in the section of the section of the three section of the section of the absolute interest is begin as early as the first weeks of the section of the increase in CV thrombotic events begin as early as the first weeks of the section of the

unuminout cas use user under under consistently at inglies doese. To minime the popertial risk for an adverse CV event in KSDIU-treated patents, use the lowest effective does for the shortest duration possible. Physicians and patents should remain aert for the development of south events, throughout the entire treatment course, even in the absence of previous CV symptoms. Patents should be informed about the symptoms of seture UV events and the study to take if they cours. 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 meakizam, increases the risk of serious gastrointestinal (Gi) events (see Warnings and Precautions (5.2)).

## Status Post Coronary Artery Bypass Graft (CABG) Surgery

The large critical probability of the large pr

## Post-MI Patients

Pact-I/L Plaintist. Diservational studies conducted in the Danish National Registry have demonstrated the patients treated with NSAIDs in the post-MI period were at increased risk of relativations. CV-related death, and acuse on rotality beginning in the first week of treatment. In this same cohort, the includence of death in the first year post-MI was 20 per 100 person deposed patients. Although the absolute rate of death death death somewhat after the first year post-MI, the increased relative rate of death death death somewhat after the first year post-MI, the increased relative rate of death death death of the persisted over at least the next tour 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 schemia.

### 5.2 Gastrointestinal Bleeding, Ulceration, and Perforation

5.2 Gastrointesthal Bleeding, Ukcartion, and Perforation NSADB, including meloxicam, can cause serious gastrointestinal (G) adverse events including information, besiering, ukcartism, and geforation of the isophagas, stomach, occur at any time, with or without warning symptoms, in patients treated with NSADB, orgoin on in the gatters with ordeved serious upper Gl adverse event on NSAD therapy is symptomatic. Upper Gl ukcers, gross bleeding, or perforation caused by NSADB occurred in approximately 1% of patients treated for 3 & months, and in about 2.4% of gaterist treated for one year. However, even short-term NSAD therapy is not without risk.

## Risk Factors for GI Bleeding. Ulceration. and Perforation

International on an extension, user allow 1.810 Performance performs that prove heating of the decises and/or GI bleeding who used NSADs hardware the performance of the second second second second second heating the performance of the second second second second second contracteristics and the second second second second second second contracteristics and second secon

rate for dialeeong. Strategies to Monitore the GLR Bicks in NSAID-treated patients: Use the lowest effective dosage for the shortest possible duration. A void use in patients at higher risk unless benefits are expected to outweigh the consider alement the regies other than NSAID. A Remain alert for signs and symptoms of GL uccration and bleeding during NSAID therapy.

Remain alert for signs and symputers or on viewsmern through, and discontinue Medioxican exert is supported, promptly hibite exclusion and treatment, and discontinue Medioxican until a service. If adverse event is ruled out.
 In the setting of concontract use of low-does aspirit for cardiac prophysiks, monitor patients more closely for evidence of GI bleeding [see Drug Interactions (7)].

## 5.3 Hepatotoxicity

5.3 Hepatotoxxxty Elevators of LT or AST (three or more times the upper limit of normal (ULNI) have been reported in approximately 1% of NSAD-treated patients in clinical trials. In addition, rare, sometimes ratal, cases of severe hepatic highry, including fulminant hepatits, 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 warming sings and symptoms of hepsetotoxicly (e.g., nausas, fidgue, lethargy, diarins, ny richts, aunotics, right upper usularing treadments, and "I like" symptoms). If chinai signs and symptoms consistent with here disease develop, it systemic manipations occur (e.g., eosinophila, rach, ed.), discontinue Melokkam immediate), and perform a chinai evaluation of the patient [see Use in Spec/E Populations (6:0) and Chinai Almanucodogi (12.3)).

## 5.4 Hypertension

3.4 hypertension NSABs, hickland, Mebxicam, can lead to new onset or worsening of preexisting hypertension, either of which may contribute to the increased incidence of CV events. Patients taking anglotensin converting enzyme (ACE) inhibitors, thiszde duretcs, or loop duretcs may have impaired response to these therapies when taking NSADs [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 Coxband reactional NSAID Trailaist's Collaboration meta analysis of randomized controlled trails demonstrated an approximately two-fold increase in hospitalizations for their failure in CoxD settle between pointers and nonexelibre MSAID reacted publients with ment failure. NSAID use increased the risk of MJ, 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., duretics, 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 a expected to outweigh the risk of worsening heart failure. If Meloxicam is used in pati with severe heart failure, monitor patients for signs of worsening heart failure.

## 5.6 Renal Toxicity and Hyperkalemia

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 competitioation role in the maintenance of renal perfusion. In these patients, the second sec

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

Correct volume status in dehydrated or hypovolemic patients prior to initiating Meiokiam. Monitor renal function in patients with renal or hepatic impairment, heart fairus, dehydrafoxi or hypovolemia during use of Meioxiam ise Drug Interactions (7)). No information is available from controlled clinical studies regarding the use of Meioxiam in patients with advanced renal disease. Avoid the use of Meioxiam in patients with advanced renal disease units in the benefits are expected to outweigh the risk of winnership resultanciam. If Meioxiam is used in patients with advanced renal risk of winnership resultanciam. If Meioxiam is used in patients with advanced renal Pharmacology (J2.2)].

## Hyperkalemia

Truper searching 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-hypoadosterons in state.

## 5.7 Anaphylactic Reactions

Mebxicam 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 3.6 Exercitation of Asstima Related to Approx Sensitivity A subpopulation of patients with sharing may have sapir-sensible asthma which may include chronic minosaustis complicated by nasal polypics severe, potentially faal include the patient of the same to approx and unter factors. Because cross-ensities and approxement of the same service and the same service patients, Mebician is contraindicated in patients with this form of again sensibility for contraindication (J). When Meboccam is used in patients with pressiting asthma (without known aspir) sensibility), montor patients for changes in the signs and symptoms of acit may.

### 5.9 Serious Skin Reactions

5.9 Serious Skin Reactions KSMDs, hicklong mexicam, can cause serious skin adverse reactions such as exfoliative demantitas. Stevens-johnson syndrome (SS), and toxic explermal necrolysis (TRN), which can be reliat. These serious events may occur without warning, inform patients about the signs and symptoms of serious skin reactions, and to discontinue ti use of Mexicam is for first appearance of skin raish or any other sign of hypersectivity. Mexicam is contraindicated in patients with previous serious skin reactions to in-KSMD (see Convanience 40).

reactions to NSADE [see Contraindications (d)]. 5.10 Drug Reaction with Eosinophila and Systemic Symptoms (DRESS) Drug Reaction with Eosinophila and Systemic Symptoms (DRESS) has been reported in Drug Reaction with Eosinophila and Systemic Symptoms (DRESS) has been reported in threatening, DRESS bypically allowigh not exclusively, presents with hever, rank, Umphadenopathy, and/or facial sveding. Dhere: (inick annuelisations may include hepatistic, nephritis, hematological allonrimalities, myocardis, or myosite, Sometimes symptoms of DRESS may reserve an acute vial affection. Stonghelia is often present: may be involved. It is important to note that early manifestations of mypersensibility, such as fever or lympiadenopathy, may be present even though rash is not evident. If such as fives or symptoms are present, discontinue meloxicam and evaluate the patient immediately.

## 5.11 Fetal Toxicity

5.11 Felal Tookky Erenhance Caruce of Felal Ductus Arter/DSUS Avoid use of NSAIDS, including meto/caru, nergenant women at about 30 weeks gestation and text. FSAIDS, including meto/caru, nercesse the risk of premarture closure of the felal ductus arteriosus at approximately this gestational age. Diapolytariamissickennait allenal Impairment Use of NSAIDS, including meto/caru, at about 20 weeks gestation or later in pregnancy way cause felal read dysturction based to olgohytariamiss and is none; neersion at a flow and maximum. These advances has been been, but not always, reservised with research and systances the adoptivation based on but not approximately and at a flow and text. NSAID In factors. Objety/aramins is on the in pregnancy with research and the constraints. Complications of probinged olgohytariamics is none, for based of may after nonality and in function. Investive procedures such as exchange transition or dialysis were required. If MSAID transmit is necessary between about 20 weeks and 30 weeks gestation, hm.

transitission or alaysis were required. If MSAD treatments is necessary between about 20 weeks and 30 weeks gestation, limit mebxicam use to the bwest effective dose and shortest duration possible. Consider uitrasound monking of annitist full of mebxicam treatment extends beyond 48 hours. Biocontinue mebxicam if olgohydramnibs accurs and follow up according to clinical practice lase Use is *Psecific Populations* (81).

### 5.12 Hematologic Toxicity

Anemia has occurred in NSAD-treated patients. This may be due to occult or gross blood loss, fluid retention, or an incompletely described effect on erythropolesis. If a patient treated with Neloxicam has any signs or symptoms of anemia, monitor hemoglobin or hematocrit.

hemoglobin or hematocrtt. NADRs, including Mexixam, may increase the risk of bleeding events. Co-morbid conditions such as coaguidation disorders or concomitant use of warfarin, other anticoaguiunts, antipitateite agents (c.g. apprin), servoinn regratike hibbitors (SSRIs) and servoinn inorepinephrite reuptake inhibitors (SMRIs) may increase this risk. Montor these patients for signs of bleeding (bee Oring interactions (7)).

5.13 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.

## 5.14 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 lise Warnings and Precaudions (52, 53, 5.6)].

## 6 ADVERSE REACTIONS

6 ADVESSE REACTIONS The following adverse reactions are discussed in greater detail in other sections of the baselog: Cardiovascular Thrombotic Events [see Boxed Warning and Warnings and Precautions (5.1) (a) Blacking, Literation, and Perforation [see Boxed Warning and Warnings and Hepatrotockity [new Warnings and Precautions (5.3)] Hepatrotockity [new Warnings and Precautions (5.5)] Renal Tockity and Hyperkalemin [see Warnings and Precautions (5.5)] Renal Tockity and Hyperkalemin [see Warnings and Precautions (5.5)] Anaphylicitik Reactions [see Warnings and Precautions (5.5)] Drung Peactor mult biosinophila and Systemic Symptoms (DRESS) [see Warnings and Precautions (5.10)] Healt Tockity Bew Warnings and Precautions (5.12)] Healt Tockity Bew Warnings and Precautions (5.12)] Healt Tockity Bew Warnings and Precautions (5.12)] Healt Tockity Bew Warnings and Precautions (5.12)]

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

Adults Octacativitis and Phermatoki Arthrits The Metockam Phase 2/3 clinical Vial diabase includes 10.122 OA patients and 1012 RA patients treated with Metockam 15 mg/day, 305 OA patients and 1331 RA patients treated with Metockam 15 mg/day, Metockam at these doses was administered to 661 patients for at least for norths and to 312 patients for at least one year. Adproximately 100 bits of the stress of these patients for at least one year. Adproximately 101 bits of the stress of these patients for at least one year. Adproximately 102 bits of the stress of these patients of the stress of the stress of the stress of the stress of the most frequentity reported adverse events in all treatment groups across Metockam tribs.

urus. A 12-week multicenter, double-bind, randomized trial was conducted in patients with osteoarthrts of the knee or hip to compare the efficacy and safety of Meloxkam with placebo and with an active control. Tho 12-week multicenter, double-bind, randomized trials were conducted in patients with rheumatoid arthritis to compare the efficacy and safety of Meloxicam with placeho.

Table 1a depicts adverse events that occurred in ≥2% of the Meloxicam treatment groups in a 12-week placebo- and active-controlled osteoarthritis trial. Table 1b depicts adverse events that occurred in ≥2% of the Meloxicam treatment groups in two 12-week placebo-controlled rheumatoid arthritis trials.

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

 
 Instruction
 <thInstruction</th>
 <thInstruction</th>
 **157 154 156** 17.2 20.1 17.3 No. of Patients Gastrointestinal

Abdominai pain	2.5	1.9	2.0	1.5
Diarrhea	3.8	7.8	3.2	9.2
Dyspepsia	4.5	4.5	4.5	6.5
Flatulence	4.5	3.2	3.2	3.9
Nausea	3.2	3.9	3.8	7.2

Body as a Whole				
Accident household	1.9	4.5	3.2	2.6
Edema <sup>1</sup>	2.5	1.9	4.5	3.3
Fall	0.6	2.6	0.0	1.3
Influenza-like symptoms	5.1	4.5	5.8	2.6
Centraland Periphera	1			
Nervous System				
Dizziness	3.2	2.6	3.8	2.0
Headache	10.2	7.8	8.3	5.9

Respiratory					
Pharyngitis		1.3	0.6	3.2	1.3
Upper respiratory infection	tract	1.9	3.2	1.9	3.3
Skin					
Rash <sup>2</sup>		2.5	2.6	0.6	2.0

## Table 1b Adverse Events (%) Occurring in ≥2% of Meloxicam Patients in two 12-Week Rheu

	Placebo Meloxicam 7.5 mg daily Meloxicam 15 mg dail					
No. of Patients	469	481	477			
Gastrointestinal Disorders	14.1	18.9	16.8			
Abdominal pain NOS <sup>*</sup>	0.6	2.9	2.3			
Dyspeptic signs and symptoms <sup>†</sup>	3.8	5.8	4.0			
Nausea"	2.6	3.3	3.8			
General Disorders and Administration Site	Conditions					
Influenza-like illness*	2.1	2.9	2.3			
Infection and Infestations						
Upper Respiratory tract infections- pathogen class unspecified <sup>†</sup>	4.1	7.0	6.5			
Musculoskeletal and Connective Tissue Di	sorders					
Joint related signs and symptoms <sup>†</sup>	1.9	1.5	2.3			
Nervous System Disorders						
Headaches NOS*	6.4	6.4	5.5			
Skin and Subcutaneous Tissue Disorders						
Rash NOS*	1.7	1.0	2.1			

The adverse events that occurred with Meloxicam in  $\geq 2\%$  of patients treated short-term (4 to 6 weeks) and long-term (6 months) in active-controlled osteoarthritis trials are presented in Table 2.

 Table 2 Adverse Events (%) Occurring in ≥2% of Meloxicam Patients in 4 to 6 Weeks and 6 Month Active-Controlled Osteoarthritis

 Triab

 4-6 Weeks Controlled Trials

 6 Month Controlled Trials

	Meloxicam 7.5 mg dailyMeloxicam 15 mg dailyMeloxicam 7.5 mg dailyMeloxicam 1				
No. of Patients	8955	256	169	306	
Gastrointestinal	11.8	18.0	26.6	24.2	
Abdominal pain	2.7	2.3	4.7	2.9	
Constipation	0.8	1.2	1.8	2.6	
Diarrhea	1.9	2.7	5.9	2.6	
Dyspepsia	3.8	7.4	8.9	9.5	
latulence	0.5	0.4	3.0	2.6	
lausea	2.4	4.7	4.7	7.2	
/omiting	0.6	0.8	1.8	2.6	
Body as a Whole					
Accident household	0.0	0.0	0.6	2.9	
dema"	0.6	2.0	2.4	1.6	
Pain	0.9	2.0	3.6	5.2	
Central and Peripheral Nervous S	ystem				
lizziness	1.1	1.6	2.4	2.6	
leadache	2.4	2.7	3.6	2.6	
ematologic					
Anemia	0.1	0.0	4.1	2.9	
Musculoskeletal					
Arthralgia	0.5	0.0	5.3	1.3	
Back pain	0.5	0.4	3.0	0.7	
Psychiatric					
nsomnia	0.4	0.0	3.6	1.6	
Respiratory					
Coughing	0.2	0.8	2.4	1.0	
Jpper respiratory tract infection	0.2	0.0	8.3	7.5	
ikin					
Pruritus	0.4	1.2	2.4	0.0	
lash†	0.3	1.2	3.0	1.3	
Jrinary					
Acturition frequency	0.1	0.4	2.4	1.3	
Jrinary tract infection	0.3	0.4	4.7	6.9	

Higher doess of Nebxicam (22.5 mg and greater) have been associated with an increased risk of serious GI events; therefore, the daily dose of Meloxicam should not recent 15 mg.

Pauciarticular and Polyarticular Course Juvenile Rheumatoid Arthritis (JRA) Pauciaticular and Polyaticular Course Livene Rheumatol Arthrist (BBA) Three hundred and ediphyseven patients with pauciartural and polyaticular course JRA were exposed to Meloxican with does ranging from 0.125 to 0.375 mg/ag per day in three clinical trials. Three studies consisted of two 12-week multicenter, double-bindi, randomided trials (one with a 12-week open-label extension and one with a 40-week extension of the double-bindi and the double-bindi. randomided trials (one with a 12-week open-label extension and one with a 40-week extension of the double-bindi experience, athough there were differences in frequency. In particular, the following most common adverse events, addemina jana, vonting, diarthea, headdache, and pyreak, were more common in the patializit, than in the adult trials. Reah was reported userhief during the course of the trials. This adverse events did not demonstrate an age or gender-specific subgroup effect. The following is at or adverse to que ranctions occurring in ~2% of patients. receiving Mebuckam in clinical trials involving approximately 16,200 patients.

Body as a Whole	allergic reaction, face edema, fatigue, fever, hot flushes, malaise, syncope, weight decrease, weight decrease
Cardiovascular	angina pectoris, cardiac failure, hypertension, hypotension, myocardial infarction, vascuitis
Central and Peripheral Nervous Sy	vstem convulsions, paresthesia, tremor, vertigo
Gastrointestinal	collis, dry mouth, duodenal uker, eructation, esophagitis, gastric uker, gastritis, gastrocesophageal reflux, gastrointesthal hemorrhage, hematemesis, hemorrhagic duodenal uker, hemorrhagic gastric uker, intesthal perforation, melena, pancreatitis, perforated duodenal uker, stomatitis ukerative
Heart Rate and Rhythm	arrhythmia, palptation, tachycardia
Hematologic	leukopenia, purpura, thrombocytopenia
Liver and Biliary System	ALT increased, AST increased, bilrubinemia, GGT increased, hepatitis
Metabolic and Nutritional	dehydration
Psychiatric	abnormal dreaming, anxiety, appetite increased, confusion, depression, nervousness, somnolence
Respiratory	asthma, bronchospasm, dyspnea
	alopecia, angloedema, bullous eruption, photosensitivity reaction, pruntus, sweating increased, urticaria
Special Senses	abnormal vision, conjunctivitis, taste perversion, tinnitus
Urinary System	albuminuria, BUN increased, creatinine increased, hematuria, renal failure
Skin and Appendages Special Senses	abpecia angolestima, balausi eruption, photosembility reaction, prurbus, sevesting increased, unitaria abnormal vision, conjunctivita, state perversion, intrutus

6.2 Post Marketing Experience
The following adverse reactions have been identified during post approval use of Mebvicam. Because these reactions are reported voluntarily from a population of uncertain size. It is not always possible to reliably estimate their frequency or establish a cusal relationship to drug exposure. Decisions about whether to include an adverse event from spontaneous reports in habeling are typically based on one or more of the ocusal relationship to the drug. Adverse reactions reported in workwide post manifering experience or the Iterature include: acute uninary retention; agranulocytosis; aberations immod (such amod devatoria); anaphylicitod mactions including shock; erythema multiforme; excludiate domentals; interstial neghtics; jeandice; been faute: Stevens-johnons syndrome; toxic equement allow encrysis; and inferting frequency.

## 7 DRUG INTERACTIONS

See Table 3 for clinically significant drug interactions with meloxicam. See also Warnings and Precautions (5.2, 5.6, 5.12) and Clinical Pharmacology (12.3).

Drugs that Int	erfere with Hemostasis
	Meloxicam and anticoagulants such as warfarin have a
	synergistic effect on bleeding. The concomitant use of meloxicam
	and anticoagulants have an increased risk of serious bleeding
	compared to the use of either drug alone.
Clinical Impact:	Serotonin release by platelets plays an important role in
	hemostasis. Case-control and cohort epidemiological studies showed
	that concomitant use of drugs that interfere with serotonin reuptake
	and an NSAID may potentiate the risk of bleeding more than an
	NSAID alone
	Monitor patients with concomitant use of Meloxicam with
	anticoagulants (e.g., warfarin), antiplatelet agents (e.g., aspirin),
Intervention:	selective serotonin reuptake inhibitors (SSRIs), and serotonin
	norepinephrine reuptake inhibitors (SNRIs) for signs of bleeding [see
	Warnings and Precautions (5.12) 1.
Aspirin	
	Controlled clinical studies showed that the concomitant use of
	NSAIDs and analgesic doses of aspirin does not produce any greater
	therapeutic effect than the use of NSAIDs alone. In a clinical study.
Clinical Impact:	the concomitant use of an NSAID and aspirin was associated with a
	significantly increased incidence of GI adverse reactions as compared
	to use of the NSAID alone [see Warnings and Precautions (5.2) ].
	Concomitant use of Meloxicam and low dose aspirin or analoesic
	doses of aspirin is not generally recommended because of the
Intervention:	increased risk of bleeding [see Warnings and Precautions (5.12) ].
	Meloxicam is not a substitute for low dose aspirin for cardiovascular
	protection.
CE Inchildren	Angiotensin Receptor Blockers, or Beta-Blockers
ACE IIIIIDICOIS,	NSAIDs may diminish the antihypertensive effect of angiotensin
	converting enzyme (ACE) inhibitors, angiotensin receptor blockers
	(ARBs), or beta-blockers (including propranolol).
	In patients who are elderly, volume-depleted (including those on
Clinical Impact:	diuretic therapy), or have renal impairment, coadministration of an
	NSAID with ACE inhibitors or ARBs may result in deterioration of ren
	function, including possible acute renal failure. These effects are
	usually reversible.
	During concomitant use of Meloxicam and ACE inhibitors. ARBs.
	or beta-blockers, monitor blood pressure to ensure that the desired
	blood pressure is obtained.
Intervention:	During concomitant use of Meloxicam and ACE inhibitors or ARBs in patients who are elderly, volume-depleted, or have impaired
incervention:	
	renal function, monitor for signs of worsening renal function [see Warnings and Precautions (5.6) ].
	When these drugs are administered concomitantly, patients
	should be adequately hydrated. Assess renal function at the beginning of the concomitant treatment and periodically thereafter.
	beginning of the concomitant treatment and periodically thereafter.
Diuretics	Allelest studies as well as a set analysis a base attacks at social that
	Clinical studies, as well as post-marketing observations, showed that NSAIDs reduced the natriuretic effect of loop diuretics (e.g.,
	NSAIDS reduced the natriuretic effect of loop diuretics (e.g., furosemide) and thiazide diuretics in some patients. This effect has
	been attributed to the NSAID inhibition of renal prostaglandin
Clinical Impact:	
	synthesis. However, studies with furosemide agents and meloxicam
	have not demonstrated a reduction in natriuretic effect. Furosemide
	single and multiple dose pharmacodynamics and pharmacokinetics
	are not affected by multiple doses of meloxicam.
	During concomitant use of Meloxicam with diuretics, observe patient
Intervention:	for signs of worsening renal function, in addition to assuring diuretic
	efficacy including antihypertensive effects [see Warnings and
	Precautions (5.6) 1.

	NSAIDs have produced elevations in plasma lithium levels and					
	reductions in renal lithium clearance. The mean minimum lithium					
	concentration increased 15%, and the renal clearance decreased by					
Clinical Impact:	approximately 20%. This effect has been attributed to NSAID					
	inhibition of renal prostaglandin synthesis [see Clinical Pharmacology					
	(12.3)].					
Intervention:	During concomitant use of Meloxicam and lithium, monitor patients					
	for signs of lithium toxicity.					
Methotrexate						
	Concomitant use of NSAIDs and methotrexate may increase the risk					
Clinical Impact:	for methotrexate toxicity (e.g., neutropenia, thrombocytopenia, rena					
	dysfunction).					
Intervention:	During concomitant use of Meloxicam and methotrexate, monitor					
	patients for methotrexate toxicity.					
Cyclosporine						
	Concomitant use of Meloxicam and cyclosporine may increase					
Clinical Impact:	cyclosporine's nephrotoxicity.					
Intervention:	During concomitant use of Meloxicam and cyclosporine, monitor					
	patients for signs of worsening renal function.					
NSAIDs and Sa						
	Concomitant use of meloxicam with other NSAIDs or salicylates (e.g.					
Clinical Impact:	diflunisal, salsalate) increases the risk of GI toxicity, with little or no					
	increase in efficacy [see Warnings and Precautions (5.2) ].					
Intervention:	The concomitant use of meloxicam with other NSAIDs or salicylates it					
	not recommended					
Pemetrexed						
	Concomitant use of Meloxicam and pemetrexed may increase the ris					
Clinical Impact:	of pemetrexed-associated myelosuppression, renal, and GI toxicity					
	(see the pemetrexed prescribing information).					
	During concomitant use of Meloxicam and pemetrexed, in patients					
	with renal impairment whose creatinine clearance ranges from 45 to					
	79 mL/min, monitor for myelosuppression, renal and GI toxicity.					
	Patients taking meloxicam should interrupt dosing for at least five					
Intervention:	days before, the day of, and two days following pemetrexed					
	administration.					
	In patients with creatinine clearance below 45 mL/min, the					
	concomitant administration of meloxicam with pemetrexed is not					
	recommended					

### 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

Risk Summary

Data Jamina Y Use of NSAIDs, including Mebxkam, can cause premature closure of the fetal ductus arteriosus and fetal renal dystanction leading to obgohydramnös and, in some cases, nenatal renal impairmeri. Because of these risks, ind tose and duration of Mebokam use between about 20 and 30 weeks of gestation, and avoid Mebokam use at about 30 weeks of gestation and later in prepariony (see Clinica Considerations, Data). Premature Closure of Fetal Ductus Arteriosus

Use of NSAIDs, including Meloxicam, at about 30 weeks gestation or later in pregnancy increases the risk of premature closure of the fetal ductus arteriosus.

Data from observational studies regarding potential embryofetal risks of NSAID use in women in the first or second trimesters of pregnancy are inconclusive.

women in the first of second transiens of preplandry are inconclusive. In aminal reproduction Studies, embrydarid adub was observed in rats and rabbits to 0.65- and 6.5-times the maximum recommended human dose (MRHD) of Melosican embryogenesis with melosicam at an oral dose equivalent to 74-times the MRD. In pre-elevation of the maximum recommended human dose (MRHD) of Melosicam embryogenesis with melosicam at an oral dose equivalent to 74-times the MRD. In pre-delinged particular, and decreased of therping survival at 0.04 bitms MRHD of melosicam. No teratogenic effects were observed in rats and rabbits fraeted with melosicam during organogenesis at an oral dose equivalent to 2.4 and 2-times MRHD of melosicam. organogenesis at an oral dose equivalent to 2.6 and 26-times the MRH0 (see Data). Based on animal data, prostaglindink- nue been shown to have an important role in endometrial vascular permeability, bistocyst implantation, and deciduatation. In animal budies, administration of prostagliandin synthesis inhibitors, such as melosicam, resultad in increased pre- and post-implantation bass. Prostagliandina das have been shown to have an important role in ficial kinkly development, in publicited animal development when administred at clinically relevant doses.

The estimated background risk of major birth defects and miscarriage for the indicated population(s) is unknown. All pregnancies have a background risk of birth defect, biss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively. Clinical Conside

-Fetal/Neonatal Adverse Reactions

Premature Closure of Fetal Ductus Arteriosus

Avoid use of NSAIDs in women at about 30 weeks gestation and later in pregnancy, because NSAIDs, including meloxicam, can cause premature closure of the fetal ductus arteriosus (see Data). Oligohydramnios/Neonatal Renal Impairment:

Upportgramms/tennata inter impartment: If in SSAD is necessary at about 20 weeks spectation or later in pregnancy, limit the use to the lowest effective does and shortest duration possible. If metoxican interatiment extends beyond da hours, consider monitoring with unreasonal for algohydramins. If practice (see Data). Labor or Delivery There are no studies on the effects of Meloxican during labor or delivery. In animal studies, ISADDs, including medoxicam, thistic prostagiand nynthesis, cause delived partitribut, and increase the indexicor of studies.

Data Human Data

Premature Closure of Fetal Ductus Arteriosus Published literature reports that the use of NSAIDs at about 30 weeks of gestation and later in pregnancy may cause premature closure of the fetal ductus arteriosus. Olionhvdramnios.Neonatal Renal Imagirment:

Liter in prognancy may cause promaure community of the prognancy may cause promained to the prognancy may cause a about 20 Olgohydrammoky Nennatial Real Impairment: Published studies and postnarkiting reports describe material dysfunction leading to olgohydrammoky, and in some case, neonatal real impairment. These adverse outcomes are seen, on average, attrict days to weeks of teration of their to regrancy associated with real real dysfunction leading to olgohydrammoky, and in some case, neonatal real impairment. These adverse outcomes are seen, on average, attrict days to weeks of teration of the origin of the decrease in annotation in the second s

with invasive procedures, such as exchange transition or dialysis. Methodobigal mitations of these postantexitering studies and reports include lack of a control group; Inited information regarding dose, duration, and timing of drug esposure; and concomitant use of other mick ands. These initiations preclude establishing a reliable estimate of the risk of adverse fetal and neonatal outcomes involved insernal NSMD use Escause the published safety data on involution involves infant exposed to NSAIDs through maternal use is uncertain.

Infait exposed to NSAIDS through maternal use is uncertaint, rated to the human mini-Animal Data Animal Data Berlin and Animal Data Berlin and Animal Data Berlin and Animal Data Berlin and Jack Berlin and Jack Berlin and Jack Berlin and Jack Berlin and Berlin Berlin Berlin Berlin Berlin Berlin Berlin Berlin Berlin Ber

Unbugnout organogeness. Oral administration of meloxicam to pregnant rats during late gestation through lactation increased the incidence of dystocia, delayed parturition, and decreased offspring survival at meloxicam doses of 0.125 mg/kg/day or greater (0.08-times MRHD based on BSA comparison).

## 8.2 Lactation

Risk Summary

text summary There are no human data available on whether meloxicam is present in human milk, or on the effects on breastfed infants, or on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for Meloxicam and any potential adverse effects on the breastfed infant from the Meloxicam or from the underlying maternal condition.

<u>Data</u> Animal Data

Meloxicam was present in the milk of lactating rats at concentrations higher than those in plasma.

8.3 Females and Males of Reproductive Potential

### **Infertility** Females

remass Based on the mechanism of action, the use of prostaglandin-mediated NSAIDs, including Metoxiam, may deby or prevent rupture of ovarian foldies, which has been associated animistration of prostaglandin synthese hithbors has the posterial to disrupt prostaglandin-mediated folkular rupture required for ovaluton. Small studies in women treated with NSAIDs are also shown are versible deby in ovalution. Consider withdrawal of MSAIDs, including Metoxiam, in women who have difficulties conceiving or who are undergraps investigation of storetils:

8.4 Pediatric Use

# The safety and effectiveness of meloxicam in pediatric JRA patients from 2 to 17 years of age has been evaluated in three clinical trials [see Dosage and Administration (2.3), Adverse Reactions (6.1) and Clinical Studies (14.2)].

8.5 Geriatric Use

a.) befault use Eldely patients, compared to younger patients, are at greater risk for NSAID-associated serious cardiovascular, gastrointestinal, and/or renal adverse reactions. If the anticipated benefit for the eldery patient outweigh these potential risks, start dosing at the low end of the dosing range, and monitor patients for adverse effects [see Warnings and Precautions [3, 52, 53, 53, 56, 51.4]

8.6 Hepatic impairment No dose adjustment is necessary in patients with mild to moderate hepatic impairment Patients with severe hepatic impairment have not been adequately studied. Since meboxicam is significantly metabolized in the liver and hepatotoxicity may occur, use

meloxicam with caution in patients with hepatic impairment [see Warnings and Precautions (5.3) and Clinical Pharmacology (12.3)].

### 8.7 Renal Impairment

b) recent impairment. No dose adjustment is necessary in patients with mild to moderate renal impairment. Patients with severe renal impairment have not been studied. The use of Metoxican in subjects with severe renal impairment is not recommended. In patients on hemodalay metoxicam should not exceed 7.5 mp per day. Metoxicam is not dialyzable [see Dosag and Administration C.1] and Clinaci Pharmacology (12.3)].

## 10 OVERDOSAGE

Symptoms following acute NSAID overdosages have been typically limited to lethargy, drowsiness, nausea, vomiting, and epigastr c pain, which have been generally reversible with supportive care. Gastronitetational belefing has occurred. Hypertension, acute renain failure, respiratory depression, and coma have occurred, but were rare [see Warnings and Precautions [51, 25, 25, 45, 61].

Needge objects and is predicationed, and support to card following an EASID predication threat are not packed. Existicates, consider threads and/or control and the CHO 15 100 grane in adults, 1 to 2 granes per kg of body weight in pediatric patteries) and/or combic cathertic is symptometical patient seem within four hours of ingestion or in patients what a large overdicatege (5 to 10 times the recommended discape). For call they provide harding, the method set of the control of the control of adults and the set of the control of the control of the control of patients with a large overdicatege (5 to 10 times the recommended discape). For call adult to the control of the control of the control of the control of patients with a large overdicatege (5 to 10 times the recommended discape). For call adult adult adult discape of the control of the control of the control of patients with a large overdicatege (5 to 10 times the recommended discape). For call adult ad

There is limited experience with meloxicam overdosage. Cholestyramine is known to accelerate the clearance of meloxicam. Accelerated removal of meloxicam by 4 g oral doess of cholestyramine given three times a day was demonstrated in a clinical trial. Administration of cholestyramine may be useful following an overdosage. For additional information about overdosage treatment, call a poison control center (1-800-222-1222).

## 11 DESCRIPTION

Mebxicam Tablets USP are a nonsteroidal anti-inflammatory drug (NSAID). Each tablet contains 7.5 mg or 1.5 mg mebxicam for oral administration. Meoxicam is chemically despitated as 4-Mpdovy2-methy4-fried/s-methy2-tablety2-explosibility. carboxamble 1.1-doxide. The molecular weight a 331.4. Its empirical formula is Cypty1-gbd2-as 1.4. https://www.structural.formula.



Chemical Str

Meducian is a particly informediate provided provided in particle methods in the provided pr

The inactive ingredients in Meloxicam tablets USP include colloidal silicon dioxide, crospovidone, lactose monohydrate, magnesium stearate, microcrystalline celuiose, povidone and sodium citrate dihydrate.

## 12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action Meloxicam has analgesic, anti-inflammatory, and antipyretic properties

Metoxican has analysis, anti-inflammatory, and antityyetic properties. The mechanism of action of Metokicam, like that of other NADDs, is not completely understood but involves inhibition of cyclooxygeniese (COX-1 and COX-2) Metoxican is a potent inhibitor of prostagionidi synthesis in wird. Netoxicaan concentrations reached during therapy have produced in wird effects. Prostagianding manim modes, Prostagiandria synthesis in wird. Netoxicam is inhibitor of prostagiandin synthesis, is mode of action may be due to a decrease of prostagiandris neprother discusses.

## 12.3 Pharmacokinetics

Absorption The absolute biovaliability of metoxicam capsules was 89% following a single oral dose of 30 mg compared with 30 mg // boka injection. Following single intravenous doses, dose proportional dimensionidates was estimant in the range of 5 mg to 80 mg. After and the single of 2.5 mg to 1.5 mg. Mean Cmax was achieved within four to five house are 7.5 mg metoxicam tablet was also muder fasted conflorms, including a prolonged drug absorption. With multiple dosing, strashy-state concentrations we not many possible of the single dosing strashy-state concentrations we hours post-dose signeding biological post of the single dosing strashy and mours post-dose signeding biological post of the single dosing strashy and to 1.0 to 1.0 to Measuram of the single single

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

			Steady State			gle Dose
Pharmacokinetic Paran	neters (%CV) I	lealthy male adults (Fee	i)†Elderly males (Fed)†	Elderly females (Fed) <sup>†</sup>	Renal failure (Fasted)H	lepatic insufficiency (Fasted
		7.5 mg <sup>‡</sup> tablets	15 mg capsules	15 mg capsules	15 mg capsules	15 mg capsules
N		18	5	8	12	12
Cmax	[µg/mL]	1.05 (20)	2.3 (59)	3.2 (24)	0.59 (36)	0.84 (29)
t <sub>max</sub>	[h]	4.9 (8)	5 (12)	6 (27)	4 (65)	10 (87)
t <sub>1/2</sub>	[h]	20.1 (29)	21 (34)	24 (34)	18 (46)	16 (29)
CL/f	[mL/min]	8.8 (29)	9.9 (76)	5.1 (22)	19 (43)	11 (44)
V <sub>2</sub> /f <sup>5</sup>	[L]	14.7 (32)	15 (42)	10 (30)	26 (44)	14 (29)
* The parameter values in the † not under high fat condition ‡ Meloxicam tablets § V <sub>2</sub> /f =Dose/(AUC+Kel)		es				

## Food and Antacid Effects

Distribution

Database Databa

Merivative concentrations in synovial fluid, after a single oral dose, range from 40% to 50% of those in plasma. The free fraction in synovial fluid is 2.5 times higher than in plasma, due to the lower abumin content in synovial fluid as compared to plasma. The significance of this penetration is unknown.

### Elimination Metabolism

Metabolism Metabolism Metabolism for the service of the service . Excretion

Metoxicam excretion is predominantly in the form of metabolites, and occurs to equal extents in the urihe and faces. Only traces of the unchanged parent compound are excreted in the urihe [0.2%] and rices [1.5%]. The center of the urihary secretion was found in urihe in the form of metoxicam, and the 3-hydroxymethyl and 35-carboxy metabolites, respectively. There is significant bilary and/or choices/praine for the drug. The was demonstrated when oral administration of choices/praine following a single V does of metoxicam decreased the AUC of metoxicam by 50%.

The mean elimination half-life (t1/2) ranges from 15 hours to 20 hours. The elimination half-life is constant across does levels indicating lnear metabolism within the therapeutic dose range. Plasma clearance ranges from 7 to 9 mL/min. Specific Populations

-Pediatric

After single (0.25 mg/kg) dose administration and after achieving steady state (0.375 mg/kg/dg/s), there was a general trend of approximately 30% lower exposure in younger patients (2 to 6 years of) as compared to the older patients (7 to 16 years 048). The state to those in the adult patients, when using ALC values normalized to a dose of 0.55 mg/s (ge-cobase) and Administration (2.4). The molecolumn mode (50) elimination half-Re was 13.2 (10.1) and 13.0 hours (3.0) for the 2 to 6 year of patients, and 7 to by and to patients, respectively. In a countrie analysis, utilizing population pharmacokinetics body-weight, but not age, researche. The body-weight normalized papiers of of clarance values were adequate predictors of melokicam exposure in pediatric patients. The pharmacokinetics of Meloxicam in the polarity.

### Geriatric

Elderly males (265 years of age) exhibited méloxicam plasma concentrations and steady-state pharmacoknetics similar to young males. Elderly females (265 years of age) had a 47% high AUCSs and 32% higher Cmax, sa as compared to younger females (255 years of age) after body weight normalization. Despite the increased total concentrations in the defel y females, than devises event profer was compared be to hold defer platient populations. A smaller free fraction was found in edierly female platents in comparison to defer yim platients.

Young females exhibited slightly lower plasma concentrations relative to young males

# After single doses of 7.5 mg Meloxicam, the mean elimination half-life was 19.5 hours for the female group as compared to 23.4 hours for the maile group. At steady state, the data were similar (17.9 hours vs.21.4 hours). This pharmacocheck difference due to gender is likely to be of little: clinical importance. There was inserty of pharmacokinetic sind and no appreciable difference in the Cmax of Tmax across genders.

and no opprecision divergence in the Chink of Timak actions generati-following a single 15 mg dose of meloxicam there was no marked afference in plasma concentrations in patients with mild (Chi-Myun) Class II) or marked afference in plasma (II) hegatic impairment compared to healthy volumees, introduce bioling of meloxicam with mild to moderate hepatic impairment. Plasmis with severe heqatic impairment (Child-Pugh Class III) have not been adequately studied [see Warnings and Precautions (S.3) and Use in Specific Populations (G.6)].

### Renal Impairm

Renal Impairment Metoxicam pharmacokinetics have been investigated in subjects with mild and moderate renal impairment. Total drug plasma concentrations of mebokicam decreased and total clearance of meboxicam increased with the degree of renal impairment while free AUC clearance of meboxicam increased with the degree of renal impairment provides in the degree of the degree of renal impairment. Patients with severe the of heplatic metabolism and subsequent excretion. No docase adjustment is necessary in platents with mild to moderate renal impairment. Patients with severe renal impairment impairments is not recommended (see Docage and Administration (2-5), Wannings and Marcenthinetis and Use of Specific Administration (2-5), Wannings and Marcenthinetism and use of Specific Administration (2-5), Wannings and Marcenthinetism and use of Specific Administration (2-5), Wannings and

# Hemodialysis Interlikuogasa Following a single dose of meboxicam, the free Cmax plasma concentrations were higher in patients with renal faulter on chronic hemodulys (1% free fraction) in comparison to comparison to plasma therefore, additional doses are not necessary site" hemodulysis, Meboxicam is not dialyzable [see Dosage and Administration (2.1) and Use in Specific Populations (8.7)].

### Drug Interaction Studies

An approximate set of the set of

with aspin isee Drug interactions (7)). Choestryamine Pretextament for four days with choiestryamine significantly increased the clearance of metoxicam by 50%. This resulted in a decrease in t<sub>LD</sub>. From 13.2 hours to 12.5 hours, and 35% reduction ha AUC. This suggests the existence of a red/culation pathway for metoxicam in the gastrointestimal tract. The clinical redevance of this interaction has to been stabilished. Crimetinice Concomitant administration of 200 mg circeitaine four times daily did not alter the single-doct has planmacokitestic.

alter the single-dose pharmacokinetics of 30 mg melokicam. Digoxir: Helokicam JS mg once daigh or 7 days, did not after the piasma concentration profile of digoxin after β-acetydigoxin administration for 7 days at christ al doses. In vitro testing found no protein binding drug in planetication between digoxin and melokicam. Libhur: In a study conducted in healthy subjects, mean pre-dose libhuri concentration ad AUC were foresates by 12 Min subjects revelving filtum in doses ranging from 80 to 1072 mg twice daily with melokicam IS mg OD every day as compared to subjects revelving filtum administration (J2 C).

Methotrexate: A study in 13 rheumatoid arthritis (RA) patients evaluated the effects of multiple doses of metoxicam on the pharmacokinetics of methotrexate taken once weeky. Metoxicam did on thava a splinificant effect on the pharmacohinetics of single doses of methotrexate. In with, methotrexate did not displace metoxicam from ks human serum bhiding sides (see Toyu Interactions (7)).

human serum binding sites [see Drug Interactions (7)]. Warriaris: The effect of metoxican on the anticoaguiant effect of warriarin has studied in a group of healthy subjects receiving daily closes of warriarin that produced an NR international Normalies Ratio between 21 and 1.8. In these subjects, maioxicand dail determined by proformation time. However, one subject to howed an increase in NR from 15 0.2.1. Causion hould be used them animizationy Medicanne with warrians race patients on warriarin may experience changes in NR and an increase of Kr of bedring complications when an even medication is introduced [see Drug Interactions (7)].

## 13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinoger There was no increase in tumor incidence in long-term carcinogenicity studies in rats (104 weeks) and mice (99 weeks) administered metoxicam at oral doses up to 0.8 mg/sd/dw in rats and up to 8.0 mg/sd/dw in mice (up to 0.5-and 2.e-times, respectively, the maximum recommended human dose [MRHD] of 15 mg/day Metoxicam based on body surface area [IS54] comparison).

Mutagenesis

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

Meloxicam did not impair male and female fertility in rats at oral doses up to 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

14.1 Osteanthrits and Rheumatoid Arthrits The use of Mabuscam for the treatment of the signs and symptoms of sobsactivities of (2,37 mg, 2.7 mg, and 1.8 mg) and (2,37 mg). The signal sobsactivity of the end of the signal sobsactivity of the signal sobsactivity of the signal endpoints were investigators global assessment, patient global assessment, patient pan assessment, and total VOMAC score (as end-aministed equitonnaire addressing day theored significant improvement in each of these endpoints compared with placebo.

The use of Mebxicam for the management of signs and symptoms of osteoarthritis was evaluated in six double-bind, active-controlled traits outside the U.S. ranging from 4 weeks to 8 nomitod outsilob. In these traits, the efficacy of Mebxicam, hold beso ef 7.5 mg/day and 15 mg/day, was comparable to proceam 20 mg/day and debfenac 5R 100 mg/day and consistent with the efficacy seen in the U.S. trait.

mg/day and consistent with the efficacy seen in the U.S. trial. The use of Mebscham for the treatment of the signs and symptoms of rheumatoid arthrits was evaluated in a 12-week, double-bind, controlled multi-national trial. Mebscham (T. 5m, g) and 22.2 mg (day) was compared to blocks). The final blocks of the sign (day) and the sign (day) was compared to blocks). The final blocks of the sign (day) and the sign (day) was compared by the sign of the final blocks of the sign (day) and the sign (day) was compared by the sign (day) was mg and 15 mg day) showed sign(framt improvement in the primary endpoint compare with placebo. No incremental benefit was observed with the 22.5 mg dose compared the 16 sign (day).

14.2 Juvenile Rheumatoid Arthritis (JRA) Pauciarticular and Polyarticula Course

The use of Meloxicam for the treatment of the signs and symptoms of pauciarticular o polyarticular course Juvenile Rheumatoid Arthritis in patients 2 years of age and older was evaluated in two 12-week, double-blind, paralel-arm, active-controlled trials.

Both studies included three smrs, neuronen and huo doces of meto-claim. In both studies, individual docispi leaguita 4.025 mg/studies/1.75 mg maximum of 0.25 mg/studies/1.25 mg/studies/1.25

maximum or interchant and 2 migraphy or insprace. The effloxy analysis used the ARP addarfs 30 responder definktion, a composite of parent and investigator assessments, counts of active pints and pints with imited 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 moticitian of groups.

16 HOW SUPPLIED/STORAGE AND HANDLI

Product: 53002-2537 NDC: 53002-2537-3 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.

Additional Medication Guides can be obtained by calling Unichem at 1-866-562-4616.

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 Warn and Precautions (5.1)].

and Precautons (5.1)). Gastraintesthal Bleeding, Likeration, and Perforation Advise patients for open 5 symptoms of ulcerations and bleeding, including epigastric pain, dyspepsia, melena, and lematemesis to their healthcare provider. In the setting of concommatint use of two-does applin for cardiac prophysika, finder maderist of the necreased risk for the signs and symptoms of Gil bleeding (see Warnings and Precautors (2.1)).

## Hepatotoxicity

Internet of the marining 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 Meioxicam tablets and seek immediate medical therapy (see Warnings and Precautions (5:3)].

## Heart Failure and Edem

And/e patients to be alert for the symptoms of congestive heart failure including shortness of breath, unexplained weight gan, or edema and to contact their heathcare provider 15 units ymptoms 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 occurs (see Contracticitations (d) and Warmings and Presentions (571)

## ous Skin Reactions including DRESS

Advise patients to stop taking Meloxicam tablets immediately if they develop any type of rash and to contact their healthcare provider as soon as possible [see Warnings and

## Precautions (5.9, 5.10)].

Female Fertility Advise females of reproductive potential who desire pregnancy that NSAIDs, including Metoxicam tablets, may be associated with a reversible delay in ovulation [see Use in Specific Populations (8.3)].

Fetal Toxicity Inform programs owners to avoid use of Meloxiam tablets and other NEAIIS starting inform programs because of the risk of the premator classing of the rest ductuit, arterosus if treatment with Meloxiam tablets is needed for a pregnant woman between about 20 to 30 weeks gestation, advise her that she may need to be monitored for oligohytramnics, if treatment continues for longer than 48 hours [see Warnings and Precautions [51] and Use h spectra Propulsions (31). /eer

Avoid Concomitant Use of NSAIDs Inform patients that the concomitant use of Meloxican tablets with other NSAIDs or stagktates (e.g. dynamia, sisalate) is not recommended due to the ncreased risk of Precautions (5.2) and Drug Interactions (7)). All stagetists that NSAIDs may be present in Yore the counter medications for transment of costs, feer, or insonna-

Use of NSAIDs and Low-Dose Aspirin Inform patients not to use low-dose aspirin concomitantly with Meloxicam tablets until they talk to their healthcare provider [see Drug Interactions (7)]. For current prescribing information, call Unichem at 1-866-562-4616.

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Pilerne. Bardez. Goa 403511. India Manufactured for:

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SPL MEDGUIDE

Medication Guide for Nonsteroidal Anti-inflammatory Drugs (NSAIDs) What is the most Important Information 1 should know about mediches NSAIDs can cause seroius side effects, including: • Increased risk of a heart attack or stroke that can lead to death . This roll may happen enty Intraiment and may increase: Increased risk of a heart attack or stroke that can lead to death. This risk
may happen any his increase:
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 s meuse connations such as different types of arthritis, menstrual cramps, and other types of short-term pain. Who should not take NSAIDs? Do not take NSAIDs: • If you have had an asthma attack, hives, or other allergic reaction with aspirin or any other NSAIDs: Do not take NSAIDS: - rypub. No. 1990 - No. 1990 heart failure liver problems including liver failure kidney problems including kidney failure kidney problems including kidney failure low red blood cells (anema) life-threatening skin reactions life-threatening alergic reactions **Other side effects of NSADs include:** stomach pain, constipation, diarrhea, gas athera nourcenearblen and chaincare Oth

beartburn, nausea, vomiting, and dizziness. Get emergency. help right away if you get any of the following symptoms: - shortness of breath or trouble breathing - chest pain - weakness in one part or side of your body - kirrord tonesit.

surred speech swelling of the face or throat

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

wausea more tired or weaker than usual diarrhea

diarrhea Chring Chring Indepettor or stomach pan Thak esymptoms There is blood in your bower movement or k is black and sticky like tar unusual weight gord to arrive store skin rash or blacters with fever swelling of the arrive. Sign, shands and feet

If you take too much of your NSAID, call your healthcare provider or get medical help right away. These are not alt the possible side effects of NSAIDs. For more information, ask your healthcare provider or pharmacist about NSAIDs.

Call your doctor for medical advice about side effects. You may report side effects to

Cal your doctor for medical advice about size effects, tour may report sure entropy PAD at 1:800-PAD. 408. Other information about NSAIDs: A Spirit is an NSAID but it does not increase the chance of a heart attack. Aspirin can canonic hard first the source of the second secon

To your healthcare provide bodier using over-the-counter MSADs for more than 10 <u>Biornal Information about the ask and offsctive use of MSADD</u>. Medicines are sometimes precisived for purposes other than those lated in a Medication calcule to not use MSADB or a condition for which it was not prescribed. In one give MSADs to other people, even if they have the same symptoms that you have it may have them. If you would like more information about NSAIDs, talk with your healthcare provider. Yill plan sat your phomodic or hink care provider for information about MSADB to that is plan store the more and the provide for information about MSADB that is and the more than the more provide the information about MSAIDs that is the more than the more themore than t

can ask your pharmacist or healthcare provider for information about NSAIDs that is written for health professionals. Additional Medication Guides can be obtained by calling Unichem at 1-866-562-4616.

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

Revised: October 2021

MELOXICAM TABLET

ELECTRONIC LANCE			100 B	02.Januar	ACCESSION OF THE ACCESS	-	
MELOXICAM meloxicam tablet							
Product Infor	mation						
Product Type		HUMAN PRESCI		am Code	NDC:53 124)	3002-2537	(NDC:29300-
Route of Admini	stration	ORAL					
Active Ingredi		Majatu					
Active Ingredi		dient Name			Basis of St	manath	Strengt
					MELOXICAM	rength	7.5 mg
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