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

MELOXICAM tablets, for oral use Initial U.S. Approval: 2000

MARING REF OF SECOND CARGOVISCICAL AND CASTRONTESTINA EVENTS
WARRING REF OF SECOND CARGOVISCICAL AND CASTRONTESTINA EVENTS
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Monestendid see for practiciting information for complete board warring cardiovascular thrombotic events, including myscardial inforction and strice, which can be fast. In Sec. this way secure any in treatment and any increase with duration as the second cardiovascular thrombotic events, including myscardial inforction and strice, which can be fast. These sharp sections are second as a second cardiovascular transmission of the second cardiovascular transmissio

Use the lowest effective dosage for the shortest duration consistent with individual patient treatment goals (2.1)

- 1)
  OA (2.2) and RA (2.3):
  Starting dose: 7.5 mg once daily
  Dose may be increased to 15 mg once daily

- Dose may be increased to 15 mg once daily
   PA (2.4):
   7.5 mg once daily in children 260 kg
   Meloxicam Tablets are not interchangeable with application milligram strength is the same (2.6)

# DOSAGE FORMS AND STRENGTHS Meloxicam Tablets USP: 7.5 mg and 15 mg (3)

- CONTRAINDICATIONS
   Known hypersensibility to melosicam or any components of the drug product (4)
   Hothary of asthmic, unclusin, or other allergic-type reactions after taking aspirin or other NSAIDs (4)
   The secting of CAIDS surgery (4)

- Sichopy of statismia, ufficuracy, or form allergic type reactions after lasting agents on other READIC, (s) in this casting of statismic support with the control of t

- Settings (Stic Reactions): Discontinuous instancement processing varieties (experience autyre resemblings): Discontinuous instancement affects appearant on a form soft or other object of proporcerectables (5) of a form soft or other object or of proporcerectables (5) of a form soft or other objects or othe

- (6.1) To report SUPPICTED ADVERSE REACTIONS, contact Lupin Pharmaceuticals, Inc. at 1.400-139-251 or FTA. at 1.400-FTA.1000 DISC INTERACTIONS CONTINUED TO THE ACTUAL OF THE ACTUAL OF
- signs or worsening renal function (7)

   <u>Diuretics</u>: NSAIDs can reduce natriuretic effect of furosemide and thiazide diuretics. Monitor patients to assure diuretic efficacy including arithypertensive effects (7)
- USE IN SPECIFIC POPULATIONS
   Intertity: NSADs are associated with reversible infertity. Consider withdrawal of meloxicam in women with bayed flightlines receivables of 9.3.

# FULL PRESCRIBING INFORMATION: CONTENTS\* WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL

- EVENTS
  1 INDICATIONS AND USAGE
  1.1 Osteoarthritis (OA

- 1.3 juvenie Rheumatoid Arthrite (Jika) valuciaris.vem www.pupers. 2 DOSAGE AND ADMINISTRATION 2.1 General Chosing Instructions 2.1 General Chosing Instructions 2.2 Reheumatoid Arthrite 1947. Page 2.2 Reheumatoid 1947. Page 2.2 Reheumatoi

- 13 NONCLINICAL INFANCED.

  13.1 CARCINOPERSIS, Mutagenesis, Impairment of Fertitary

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

# WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS

- Cardiovascular Thrombotik Penetra (ung. (IMSAID) cause an increased risk of serious cardiovascular Thrombotik Penetra (ung. (IMSAID) cause an increased risk of serious cardiovascular thrombotik events, including myocardial infarction and stroke, which can be fatal. This risk may occur early in treatment and may increase with duration of use [see Warnings and Medical Institute of Cardiovascular Cardiovascular

and Precautions(5.1).

and Statistication Bleeding. Ulceration. and Perforation

NSAIDs cause an increased risk of serious gastrointestinal (GI) adversee events including bleeding, ulceration, and perforation of the stomach or intestines, which can be fatal. These events can occur at a stomach or intestines, which can be fatal. These events can occur at and patients with a prior history of peptic lucer disease and/or GI bleeding are at greater risk for serious GI events [see Warnings and Precautions(5.2)].

# 1 INDICATIONS AND USAGE

# 1.1 Osteoarthritis (OA

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

# 1.2 Rheumatoid Arthritis (RA)

Meloxicam tablets USP 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

Meloxicam tablets USP are indicated for relief of the signs and symptoms of pauciarticular or polyarticular course Juvenile Rheumatoid Arthritis in patients who weigh ±60 kg (see Dosage and Administration (2.4) and Clinical Studies (14.2)).

# 2.1 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 adults, 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 Pharmacology (12.3)].

vicam tablets may be taken without regard to timing of meals.

### 2 2 Osteoarthritis

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

### 2.3 Rheumatoid Arthritis

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

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

For the treatment of juvenile rheumatoid arthritis, the recommended oral dose of meloxicam is 7.5 mg once daily in children who weigh  $\pm$ 80 kg. There was no additional benefit demonstrated by increasing the dose above 7.5 mg in clinical trials. Meloxicam tablets should not be used in children who weigh  $\prec$ 60 kg.

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

## 2.6 Non-Interchangeability with Other Formulations of Meloxicam

Mebxicam Tablets have not shown equivalent systemic exposure to other approved formulations of oral mebxicam. Therefore, Mebxicam Tablets are not interchangedale with other formulations of oral mebxicam. Therefore, Mebxicam Tablets are not interchangedale with other formulations of oral mebxicam strength is the same. Do not substitute similar dose strengths of Mebxicam Tablets with other formulations of formulations of formulations of formulations of formulations of oral mebxicam produced the same strengths.

- Meloxicam Tablets USP:

   7.5 mg: light yellow coloured, round, biconvex tablets, plain on one side and debossed with 7.5 on other side.

   15 mg: light yellow coloured, oval shaped, biconvex tablets, plain on one side and debossed with 15 on other side.

### 4 CONTRAINDICATIONS

- \* CONTRAINDLATION\*
   \* Rhown hypersensitivity (e.g., anaphylactic reactions and serious skin reactions) to mebxicam or any components of the drug product [see Warnings and Precautions]
- Inflow Intypesaurance medical and a service of the drug product (see waring)

   History of asthma, urticaria, or other allergic-type reactions after taking asprin or other HisSaDS, Seeve sometimes field, anaphysicar cerections to NSAIDs have been reported in such patients [see Warnings and Precautions (5.7, 5.8)]

   In the setting of coronary artery bypass graft (CABG) surgery [see Warnings and Precaudions(5.1)]

   In the setting of coronary artery bypass graft (CABG) surgery [see Warnings and Precaudions(5.1)]

5 WARNINGS AND PRECAUTIONS
5.1. Cardiovascular Thrombotic Events
Clinical trius of several CDV2 seetche and nonselective NSAIDs of up to three years
Clinical trius of several CDV2 seetche and nonselective NSAIDs of up to three years
Clinical trius of several CDV2 seetche and nonselective NSAIDs of up to three years
ceres, including myocardial infarction (IN) and stroke, which can be fatal. Based on
available data, it is undern that the risk for CV thrombotic vents is similar for all MSAIDs.
The reliable increase in serious CV thrombotic events over baseline contents of the NSAIDs.
The reliable increase in serious CV thrombotic events over baseline contents of the NSAIDs.
The reliable increase in serious CV thrombotic events, due to their increased
absolute incidence of excess serious CV thrombotic events, due to their increased in the content of the content of the NSAIDs of the NSAIDs

about the symptomics of setting CV events and the steps to lake it intoy occur. There is no consistent evidence that concurrent use of apply mitigates the increased risk of serous CV thrombotic events associated with NSADI use. The concurrent use of concurrent use of the concurrent use of the concurrent use of concurrent use of concurrent use of concurrent use of the concurrent use of concurrent use of the concurr

Two large, controlled clinical trials of a COX.2 selective HSAID for the treatment of pain in the first. 10 to 14 days following CABG surgery found an increased incidence of myocardial infarction and stroke. NSAIDs are contraindicated in the setting of CABG [see Contraintications (4)].

### Post-MI Patients

Post-MI Patients

Observational studies conducted in the Danish National Registry have demonstrated tha patients treated with National hardware for the patients rested with National And all-case mortally beginning in the first week of treatment. In this years in NSAID-treated patients compared to 12 per 100 person years in non-NSAID system of the patients of the p

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.

with a receit with, monitor planetts for sights of carbox Schemins.

5.2 Castrointeethad Bleeding, Ukeration, and Perforation all were sevents.

NSAIDs, including mebxiciam, can cause serious gastrointestinal (GI) adverse events including inflammation, beeding, ukeration, and perforation of the esophagus, stomach, small intestite, or large intestite, which can be falsal. These serious adverse events can occur at any time, with or without warming symptoms in patients treated with NSAIDs. the serious adverse events are serious adverse events of the serious adverse events of the serious adverse events with NSAIDs. The serious of the serious adverse events in the serious adverse events in the serious adverse events and the serious adverse events and the serious events and the serious events. As a serious events are serious events and the serious events and the serious events and the serious events are serious events. As a serious events are serious events and the serious events are serious events. As a serious events are serious events and the serious events are serious events. As a serious events are serious events and the serious events are serious events. As a serious events are serious events are serious events and the serious events are serious events. As a serious events are serious events are serious events and the serious events are serious events. As a serious events are serious events are serious events and the serious events are serious events. As a serious events are serious events are serious events and the serious events are serious events. As a serious events are serious events are serious events and the serious events are serious events. As a serious events are serious events are serious events are serious events are serious events. As a serious events are serious events are serious events are serious events. As a serious events are serious events are serious events are serious events are serious events. As a serious events are serious events are serious events are serious events are serious events

# Risk Factors for GI Bleeding, Ulceration, and Perforation

Natar Nations for of Intensing, Uteration, and Perforation Pathesis with a price history of peck used desises and/or Gi besering who used NSAIDs Pathesis with a price history of peck used desises and/or Gi besering with the price of the pr

- risk for Gi bleeding.

  Strategies to Minimize the GI Risks in NSAID-treated patients:

   Use the lowest effective dosage for the shortest possible duration.

   Avoid administration of more than one NSAID at a time.

   Avoid use in patients at higher risk unless benefits are expected to outweigh the increased risk of bleeding. For such patients, as well as those with active GI bleeding, consider alternate therapies other than NSAIDs.

   Consider alternate therapies of the than OF GI use and bleeding during NSAID therapies.
- therapy.

  If a serious GI adverse event is suspected, promptly intiate evaluation and treatment, and discontinue meloxicam until a serious GI adverse event is ruled out.

  In the setting of concomitant use of low-dose spirin for cardiac prophytyxis, monitor patients more closely for evidence of GI bleeding [see Drug Interactions (7)].

5.3 Hepatotoxicky

Elevations of ALT or AST (three or more times the upper limit of normal (ULNI) have
been reported in approximately 1% of NSAID-treated patients in clinical triuls. In addition,
rare, sometimes fatal, cases of severe hepatic injury, including furninant hepatits, liver
necross, and hepatic faither 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.

treated with NSAIDs including meloxicam. Inform patients of the warning signs and symptoms of hepatotoxicky (e.g., nausea, fatigue, lethracy, diarrhea, porturus, jaundice, right upper quadrant tendemess, and E systemic mandestations occur (e.g., e-caisophila, rash, etc.), discontinue meloxica immediately, and perform a clinical evaluation of the patient (see Use in Specific Populations (8.6) and Chical Pharmacology (12.3)).

# 5.4 Hypertension

NATION processing of the processing of the processing of preexisting hypertension, either of which may contribute to the increased incidence of CV events. Patients taking angottensin converting enzyme (ACI) inhibitors, thistage duretics, or loop duretics 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

and desth. Additionally, fluid retention and edema have been observed in some patients treated with NSAIDs. Use of medoxicam may blunt the CV effects of several therapeutic agents used to treat these medical conditions (e.g., duriets, ACE inhibitors, or angiotens in receptor blockers [ARBS]) fee Drug inferenctions (7).

Avoid the use of motionaria in patients with severe heart failure unless the benefits are expected to outweigh their risk of viorsering heart failure. If medoxicam is used in patient with severe heart failure, montroip patient for sings of viorsering heart failure.

# 5.6 Renal Toxicity and Hyperkalemia

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

Read tack'ty his also less rean in patients is when read-protagalaritis have a primerisation of its in the ministension of read-perhasion. In this quadratic, a diministration of an MSAID may cause a dose-dependent reduction in prostagland formation and, secondarly, in real bodo flow, which may precipitate over read decompensation. Patients at greatest risk of this reaction are those with impaired read function, delydration, hypovolemia, heart fallure, lever dysfunction, those stays.

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 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.

excreted by the kidney, monitor patients for signs of worsening renal function. Cerrect volume status in deleptrated or hypocoelimic patients prior to haiting melaxicam. Monitor renal function in patients with renal or hepatic impairment, her failure, deleptration or hypocoelimic patients upon the renal or hepatic impairment, her failure, deleptration or hypocoelimic patients good from the patient patients with a disease for controlled clinical studies regarding the use of melaxicam in patients with advanced renal disease unless the benefits are expected to outwelpid risk of worsening renal function. If melaxicam is used in patients with advanced renal disease unless the benefits are expected to outwelpid risk of worsening renal function. If melaxicam is used in patients with advanced renal disease unless the benefits are expected to outwelpid risk of worsening and function. If melaxicam is used in patients with advanced renal function. If melaxicam is used in patients with advanced renal patients with advanced renal function in from disease.

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 hyporenimenti-hypoatiosteronism state.

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 (d) and Warnings and Precautions (5.8)].

Seek emergency help if an anaphylactic reaction occurs.

See Security of Asthma Related to Asphin Sensitivity.

A subopolistion of patients with asthma may have appins-ensitive asthma which may not notice chronic infriestwates completed by nead polips. See see, potentially fetal reactively between asphin and other MSAIDs has been reported in such appins-ensible patients, meloscaries on contraindated and patients with the form of asphin sensibly fet with the patients, meloscaries or contraindated and patients with the form of asphin sensibly for (without known aspin sensibly) for without the patients of the patients of the patients with the patients with the patients and patients are patients.

### 5.9 Serious Skin Reactions

5.5 Serious Skin Reactions
ShaDas, Packlang mebaicam, can cause serious skin adverse reactions such as exfoliative dermatitis, Stevens-Johnson Syndrome (55)s, and toxic epidermal necrolysis (TRIN), which can be feath. These serious events may occur wholiout earning, Informal patients about the signs and symptoms of serious skin reactions, and to discontinue the use of mebacicam after the first superainer of skin rain or any other sign of hyper-enablity. Mebacicam is contrainticated in patients with previous serious skin reactions to in Kasho jese Contraintications (4).

reactions to NSAIDs (see Contrandications (4)).

5.10 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) has been reported in present of the threatening DRESS typically, although not exclusively, presents with fever reach feel threatening DRESS typically, although not exclusively, presents with fever, rash, hymphodeopolary, ander facial swelling. Other clinical manifestations may include hepatitis, nephritis, hematological abnormalities, myocarditis, or myositis. Sometimes symptoms of DRESS may resemble an acute vial affection. Econologish is often present may be involved. It is important to not but any form the present of the present stay be involved. It is important to not but any form and festation of the present stay is been obtained by the present of the present stay be involved. It is important to not but any function and present stay that the patient furnediately.

### 5.11 Fetal Toxicity

### ature Closure of Fetal Ductus Arteriosus

Avoid use of NSAIDs, including meloxicam, in pregnant women at about 30 weeks gestation and later. NSAIDs, including meloxicam, increase the risk of premature closure of the fetal ductus arteriosus at approximately this gestational age.

### Oliqohydramnios/Neonatal Renal Impairment

Transfusion or dialysis were required. If INSAID treatment is necessary between about 20 weeks and 30 weeks gestation, limit meloxicam use to the lowest effective dose and shortest duration possible. Consider utersound monitoring of arministic fluid if meloxicam treatment extends beyond 48 hours. Discontinue meloxicam if oligohydramnios occurs and follow up according to clinical practice flees between 50 eight populations (81.1).

### 5.12 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 metoxicam, may increase the risk of bleeding events. Co-morbid NSAIDs, including metoxicam, may increase the risk of bleeding events. Co-morbid conditions such as coagulation disorders or concomitant use of warfarin, other anticoagulants, anticoagulants, anticoagulants, anticoagulants, anticoagulants, anticoagulants, anticoagulants, anticoagulants, and servictorin increpate without resupstain the properties of the control of the contr

5.13 Masking of Inflammation and Fever
The pharmacological activity of mebxicam 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 monkoring patients on long-term NSAID treatment with a CBC and a chemistry profile periodically Isee Warnings and Precaudions (5.2, 5.3, 5.6)1.

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

Cardiovascular Thrombotic Events [see Boxed Warning and Warnings and Precaudions(5.1)]

- Cardiovascular Thrombock Events (see Boxed Warning and Warnings and Precautions (3.1) alone, and Perforation (see Boxed Warning and Warnings and Precautions (5.3))
   Precautions (5.2)
   Hepatotoxicky (see Warnings and Precautions (5.3))
   Hepatotoxicky (see Warnings and Precautions (5.3))
   Herat Talaue and Geterna (see Warnings and Precautions (5.5))
   Heart Talaue and Geterna (see Warnings and Precautions (5.5))
   Anaphylickt Reactions (see Warnings and Precautions (5.7))
   Serious Sine Reactions (see Warnings and Precautions (5.7))
   Drup Reaction with Eosiopolisia and Systemic Symptoms (DRESS) (see Warnings and Precautions (7.7))
   Hematologic Toxicky (see Warnings and Precautions (5.7))

# 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.

# Osteoarthritis and Rheumatoid Arthritis:

Osteoarthritis and Rheumatoid Arthritis:

The meboxicam Phase 2/3 clinical trial database includes 10,122 OA patients and 1012 RA
patients treated with medoxicam 7.5 inglist, 3050 OA patients and 1351 RA patients
treated with meboxicam 15 inglist, Meboxicam at these doses was administered to 681,
10,500 of these patients were treated in the placebo- andro active-controlled controlled trial osteoarthrisk trials and 2383 of these patients were treated in the placebo- andro active-controlled memodal orthrisk trials and 2383 of these patients were treated in the placebo- android active-controlled remainated arthrisk trials. Scatterinetistical (3) adverse events were the most frequently reported adverse events in all treatment groups across meloxicam trials.

Trais.

A 12-week multicenter, double-blind, randomized trial was conducted in patients with osteoarthris of the knee or hip to compare the efficacy and safety of meloxican will place boal and that a na ctive control from 21-week multicenter, double-blind, randomize trials were conducted in patients with rheumatoid arthritis to compare the efficacy ar safety of meloxican with placeboa.

Table 1a depicts adverse events that occurred in  $\geq$ 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-W Osteoarthritis Placebo- and Active-Controlled Trial

	Placebo	Meloxicam7.5 mg daily		Diclofenac 100 mg daily
No. of Patients	157	154	156	153
Gastrointestinal	17.2	20.1	17.3	28.1
Abdominal pain	2.5	1.9	2.6	1.3
Diarrhea	3.8	7.8	3.2	9.2
Dyspepsia	4.5	4.5	4.5	6.5
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*	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
Central and Peripheral Nervo	ous Syst	tem		•
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 tract infection	1.9	3.2	1.9	3.3
Skin	•			•
Rash <sup>†</sup>	2.5	2.6	0.6	2.0
* WHO preferred terms edema, eder	na depend	dent, edema peripheral, and e	dema legs combined	•

Table 1b Adverse Events (%) Occurring in ≥2% of Meloxicam Patients in two 12-Week Rheumatoid Arthritis Placebo-Controlled Trials

	Placebo	Meloxicam 7.5 mg daily	Meloxicam 15 mg daily
No. of Patients	469	481	477
Gastrointestinal Disorders	14.1	18.9	16.8
Abdominal pain NOS*	0.6	2.9	2.3
Dyspeptic signs and symptoms†	3.8	5.8	4.0
Nausea"	2.6	3.3	3.8

Influenza-like illness*	2.1	2.9	2.3	Π
Infection and Infestations				Ξ
Upper respiratory tract infections- pathogen class unspecified <sup>†</sup>	4.1	7.0	6.5	
Musculoskeletal and Connective Tissue I	Disorders			Τ
Joint related signs and symptoms†	1.9	1.5	2.3	
Nervous System Disorders				Ξ
Headaches NOS*	6.4	6.4	5.5	Ξ
Skin and Subcutaneous Tissue Disorders				Τ
Rash NOS*	1.7	1.0	2.1	7

The adverse events that occurred with meloxicam in  $\ge 2\%$  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 Trials

	4 to 6 Weeks C	ontrolled Trials	6 Month Con	trolled Trials
	Meloxicam	Meloxicam	Meloxicam	Meloxicam
	7.5 mg daily	15 mg daily	7.5 mg daily	
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
Constination	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
Flatulence	0.5	0.4	3.0	2.6
Nausea	2.4	4.7	4.7	7.2
Vomiting	0.6	0.8	1.8	2.6
Body as a Whole				
Accident household	0.0	0.0	0.6	2.9
Edema*	0.6	2.0	2.4	1.6
Pain	0.9	2.0	3.6	5.2
Central and Peripheral Nervo	us System			
Dizziness	1.1	1.6	2.4	2.6
Headache	2.4	2.7	3.6	2.6
Hematologic	•	•	•	•
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	•	•	•	
Insomnia	0.4	0.0	3.6	1.6
Respiratory	•	•	•	
Coughing	0.2	0.8	2.4	1.0
Upper respiratory tract infection	0.2	0.0	8.3	7.5
Skin	•	•	•	
Pruritus	0.4	1.2	2.4	0.0
Rash <sup>†</sup>	0.3	1.2	3.0	1.3
Urinary				
Micturition frequency	0.1	0.4	2.4	1.3
Urinary tract infection	0.3	0.4	4.7	6.9

WHO preferred terms edema, edema dependent, edema peripheral, and edema legs
 WHO preferred terms rash, rash erythematous, and rash maculo-papular combined

It WIG preferred term cash, rate erythematous, and rash microb popular combined 
Wilpiner dosse of predictions (2.5 mg and greater) have been associated with an 
increased risk of serious GI events; therefore, the daily dose of meloxicam should not 
exceed 15 mg.

Pediatrics

Pauciarticular and Polyarticular Course Juvenille Rheumatoid Arthritis (IRA): 
Three hundred and eighty-seven patients with pauciarticular and polyarticular course [IAA 
were exposed to mediscular middless and principal to (1.5 mg.) and 
where exposed to mediscular middless and principal course [IAA 
mitter clinical tribis. These studies consisted of two 12-week multicenter, double-blind, 
extension) and on 1-year open-blied PK study. The advisers events observed in these 
pediatric studies with meloxicam were similar in nature to the adult chical tribis 
minst common adverse events. Subervine and 
pyrexia, were more common in the pediatric than in the adult bribs. Rash was reported 
is event (-22) pulgetest receiving inerhansiva. Anno hundress were 
or gender-specific subgroup effect.

Body as a Whole	allergic reaction, face edema, fatigue, fever, hot flushes, malaise, syncope, weight decrease, weight increase
Cardiovascular	angina pectoris, cardiac failure, hypertension, hypotension, myocardial infarction, vascultis
Central and Peripheral Nervous System	miconvulsions, paresthesia, tremor, vertigo
Gastrointestinal	colitis, dry mouth, duodenal ulcer, erructation, esophagitis, gastric scopenagitis, gastric scophageal reflux, gastroesophageal reflux, gastroesophageal reflux, gastroesophageal reflux, gastroin testinal perforation, melena, pancreatitis, perforated duodenal ulcer, perforated gastric ulcer, stomatitis ulcerative
Heart Rate and Rhythm	arrhythmia, papitation, tachycardia
Hematologic	eukopenia, purpura, thrombocytopenia
Liver and Biliary System	ALT increased, AST increased, bilirubinemia, GGT increased, hepatitis
Metabolic and Nutritional	dehydration
Psychiatric	abnormal dreaming, anxiety, appetite increased, confusion, depression, nervousness, somnolence
Respiratory	asthma, bronchospasm, dyspnea
Skin and Appendages	alopecia, angioedema, bullous eruption, photosensitivity reaction, pruritus, sweating increased, urticaria
Special Senses	abnormal vision, conjunctivitis, taste perversion, tinnitus
Urinary System	albuminuria, BUN increased, creatinine increased, hematuria, renal failure

6.2 Postmarketing Experience

The floakwing adverse reactions have been identified during post approval use of mebxicam. Because these reactions are reported voluntarly from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure. Decisions about whether to nuclear an adverse event from spontaneous reports in labeling explicatly based on one or more of the event from spontaneous reports in labeling explications are considered in the control of the con

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).

Clinical	Interfere with Hemostasis  Meloxicam and anticoagulants such as warfarin have a
Impact:	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.
	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.
Intervention:	Monitor patients with concomitant use of meloxicam with
	anticoagulants (e.g., warfarin), antiplatelet agents (e.g., aspirin),
	selective serotonin reuptake inhibitors (SSRIs), and serotonin
	norepinephrine reuptake inhibitors (SNRIs) for signs of bleeding
	[see Warnings and Precautions (5.12)].
Aspirin	
Clinical	Controlled clinical studies showed that the concomitant use of
Impact:	NSAIDs and analgesic doses of aspirin does not produce any greater therapeutic effect than the use of NSAIDs alone. In a
	clinical study, 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)].
Intervention:	Concomitant use of meloxicam and low dose aspirin or analgesic
mer vention.	doses of aspirin is not generally recommended because of the
	increased risk of bleeding [see Warnings and Precautions (5.12)].
	Meloxicam is not a substitute for low dose aspirin for
	cardiovascular protection.
ACE Inhibite	ors, Angiotensin Receptor Blockers, or Beta-Blockers
Clinical	NSAIDs may diminish the antihypertensive effect of
Impact:	angiotensin converting enzyme (ACE) inhibitors, angiotensin
	receptor blockers (ARBs), or beta-blockers (including propranolol).
	In patients who are elderly, volume-depleted (including those
	on diuretic therapy), or have renal impairment, co-administration
	of an NSAID with ACE inhibitors or ARBs may result in
	deterioration of renal function, including possible acute renal
	failure. These effects are usually reversible.
Intervention:	During concomitant use of meloxicam and ACE inhibitors,
	ARBs, or beta-blockers, monitor blood pressure to ensure that the
	desired blood pressure is obtained.  During concomitant use of meloxicam and ACE inhibitors or
	ARBs in patients who are elderly, volume-depleted, or have
	impaired 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.
Diuretics	
Clinical	Clinical studies, as well as post-marketing observations, showed
Impact:	that 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
	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
Intervention:	During concomitant use of meloxicam with diuretics, observe patients for signs of worsening renal function, in addition to
	assuring diuretic efficacy including antihypertensive effects [see
	Warnings and Precautions (5.6)].
Lithium	processings and a recodulation (3.07).
Clinical	NSAIDs have produced elevations in plasma lithium levels and
Impact:	reductions in renal lithium clearance. The mean minimum lithium
mpace.	concentration increased 15%, and the renal clearance decreased
	by approximately 20%. This effect has been attributed to NSAID
	inhibition of renal prostaglandin synthesis [see Clinical
	Pharmacology (12.3)].
	During concomitant use of meloxicam and lithium, monitor
Intervention-	
Intervention:	natients for signs of lithium toxicity
	patients for signs of lithium toxicity.
Methotrexa	te

Rash NOS\* 1.0 - 1.0 - 2.1 - 2.1 - 1.0 - 2.1 - 2.

Intervention:	During concomitant use of meloxicam and methotrexate, monitor
	patients for methotrexate toxicity.
Cyclosporine	e .
Clinical	Concomitant use of meloxicam and cyclosporine may increase
Impact:	cyclosporine's nephrotoxicity.
Intervention:	During concomitant use of meloxicam and cyclosporine, monitor
	patients for signs of worsening renal function.
NSAIDs and	Salicylates
Clinical	Concomitant use of meloxicam with other NSAIDs or salicylates
Impact:	(e.g., diflunisal, salsalate) increases the risk of GI toxicity, with little
ì	or no increase in efficacy [see Warnings and Precautions (5.2)].
Intervention:	The concomitant use of meloxicam with other NSAIDs or
	salicylates is not recommended.
Pemetrexec	
Clinical	Concomitant use of meloxicam and pemetrexed may increase the
Impact:	risk of pemetrexed-associated myelosuppression, renal, and GI
ì	toxicity (see the pemetrexed prescribing information).
Intervention:	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 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.
	recommended.

### 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

Risk Summary

Use of NSAIDs, including metoxicam, can cause premature closure of the fetal ductus arteriosus and fetal renal dysfunction leading to objoyindramnics and, in some cases, are consultar lenal pregnament. Recurse of these risks, limit does and durathon of metoxicam menoral renal pregnament. Security of these risks, limit does and durathon of metoxicam vectors of gestation and later in pregnancy force Circlar Considerations, Data).

Use of NSAIDs, including metoxicam, at about 30 weeks gestation or later in pregnancy increases the rais of premature Costor of the fetal ductus arteriosus.

Oligohydramnios/Neonatal Renal Impairment

Use of NSAIDs about 20 weeks gestation or later in pregnancy has been associated with cases of fetal renal dysfunction leading to objoylydramnios, and in some cases, neconsidered impairment.

neonatal real impairment. Data from observational studies regarding potential embryofetal risks of NSAID use in women in the first or second timesters of pregnancy are inconclusive. In animal reproduction studies, embryotated dash was observed in rats, and rabbits treated during the period of organogeness with medicisam at oral doses equivalent to 0.65- and 6.5-times the maximum recommended human dose (RMFIID) of mebusic increased incidence of septal heart defects were observed in rabbits treated throughous him medicinal reproduction studies, there was an increased nicidence of dystoca. When the contract is not contract to the contract of the contract provides of the contract of the contract of the contract provides and the contract of the contract of the contract organization of the contract of the contract of the contract provides and the

organogenesis at an oral dose equivalent to 2.6 and 26-times the MRHD (see Data). Based on animal dutal, prostaglandin have been shown to have an important role in endometrial vasculur permeability, blastocyst implantation, and decidualzation. In animal studies, administration of prostaglandin synthesis inhibbros such as mebuxam, resitude in increased pre- and post-implantation loss. Prostaglandins also have been shown to prostaglandins synthesis inhibbros have been reported to impair kidney development when administered at clinically relevant doses. The esthrated background risk of major birth defects and miscarriage for the indicated populations) is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. operail population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 44 februs 25 see 100 see 1

### Clinical Considerations

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 duc arteriosus (see Data).

Oligohydramnios/Neonatal Renal Impairment:

Orgonyodraminos/weonata retail impartment:
If an NSAID is necessary at about 20 weeks gestation or later in pregnancy, limit the use to the lowest effective dose and shortest duration possible. If mebxicam treatment extends beyond 48 hours, consider monitoring with utrasound for oligohydramnios occurs, discontinue meloxicam and follow up according to clinical practice (see Dalley).

### Labor or Delivery:

There are no studies on the effects of meloxicam during labor or delivery. In animal studies, NSAIDs, including meloxicam, inhibit prostaglandin synthesis, cause delayed parturition, and increase the incidence of stillbirth.

# Data

Human Data

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. Oligohydramnios/Neonatal Renal Impairment:

Olgohydramios/Neonatal Renal Impairment:

Published studies and postmarketing propris describe maternal NSAID use at about 2.0 weeks gestation or later in pregnancy associated with fetal renal dysfunction leading to olgohydramios, and is some case, nonatal real impairment. These adverse outcomes are seen, on average, after days to weeks of treatment, athough the propriet of the p

### Animal Data:

Animal Data: 
Meboxicam was not teratogenic when administered to pregnant rats during fetal 
organogenesis at oral doses up to 4 mgkgdby (2.6-fold greater than the MRHD of 15 mg of meboxicam based on BSA companion). Administration of meboxicam to regnant 
the heart at an oral dose of 60 mg/log/day (78-fold greater than the MRHD based on BSA 
comparison). The or effect level was 20 mg/kgdby (2.6-fold greater than the MRHD based on BSA 
comparison). The oral fett level was 20 mg/kgdby (2.6-fold greater than the MRHD based on BSA 
comparison). The oral fett level was 20 mg/kgdby (2.6-fold pearer than the MRHD based on BSA 
comparison). The oral fett level was 20 mg/kgdby (2.6-fold S-5-fold 
meboxicam doses of 1 mg/kgdby, and prefixed (0.6-sand S-5-fold 
throughout organogenesis.

Oral administration of meloxicam to pregnant rats during late gestation through licitation 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

There are no human data available on whether meloxicam is present in human mik, or on the effects on breastfied infants, or on mik production. The developmental and health benefits of breastfeedings should be considered along with the mothers clinical need for meloxicam and any potential adverse effects on the breastfed infant from the meloxicam or from the underlying maternal condition.

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:

Females:
Based on the mechanism of action, the use of prostagiandin-mediated NSAIDs, including mebicism, may delay or prevent rupture of ovarian folicies, which has been associated with recerable infectivity is nome women. Published animal studies have shown that with recerable infectivity is nome women. Published animal studies have shown that prostagiandin-mediated folicium rupture required for ovalidation. Small studies in women treated with NSAIDs have also shown a reversible delay in ovulation. Consider withdraws of INSAIDs, rickularing meloxicam, in women who have difficulties conceiving or who are undergoing investigation of infertitity.

# 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)].

A.S. Gerdiart. We Elbely patients, compared to younge patients, are at greater risk for NSAID-associated serious cardiovascular, gastrointestinal, and/or renal adverse reactions. If the serious cardiovascular patrointestinal patients are serious cardiovascular patients for the box end of the dosing range, and monitor patients for adverse effects [see Warnings and Precactions (3, 2, 5, 2, 3, 5, 4, 5).

# 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 melocican is significantly metabolized in the law ran hepatiotickty may occur, use melocican with caution in patients with hepatic impairment [see Warnings and Procautions (3.3) and Clinical Pharmacology (12.3)).

8.7 Renal Impairment.

No dose adjustment is necessary in patients with mild to moderate renal impairment.

Patients with sweet renal impairment have not been studied. The use of meloxicam in meloxicam in a meloxicam in a meloxicam should not exceed 7.5 mg per day, Medoxicam is not dialyzable [see Dosige and Administration C.2.] and Cinical Pharmacology (12.3).

# 10 OVERDOSAGE

Symptoms following acute NSAID overdosages have been typically limited to letharg drowsiness, nausea, vomiting, and epigastric pain, which have been generally revers with supportive care. Gastrointestinal bleeding has occurred, thypertension, acute failure, respiratory depression, and coma have occurred, but were rare [see Warnin]

and Pre-authors (5.1, 5.2, 5.4, 5.6).

Manage patients with symptomatic and supportive care following an NSAID overdosage. There are no specific articolors. Consider emesis and/or activated charcos (60 to 100 meters) are no specific articolors. Consider emesis and/or activated charcos (60 to 100 meters) are not specific articolors. Catalhari for a specific articolors of inspection or in patients with a large overdosage (5 to 10 times the recommended dosage). Forced dures, algabilization of urine, hemodallysis, or hemopertusion may not be useful due to the control of the

### 11 DESCRIPTION

Meboxicam, is a nonsteroidal anti-inflammatory drug (NSAID). Each light yellow meboxicam tablet USP contains 7.5 mg or 1.5 mg meboxicam for oral administration. Meboxicam is chemically designated as 4-hydroxy-2-meby-M-1-methy-12-binacy0-12-1.2-benzolhaznie-3-carboxamble-1,1-dioxide. The molecular weight is 351.4. Its empreal formula is Cayling-19-Cayling and it has the following structural formula part and formula cayling-19-Cayling

Mebxicam is a pastel yellow solid, practically insoluble in water, with higher solubility observed in strong acids and bases. It is very slightly soluble in methanol. Mebxicam has an apparent partition coefficient (big  $P_{\rm lags}=0.1$  in n-citanollulate pri 7.4. Mebxicam has plavalue of 1.1 and 42. Mebxicam has 10.5 are available as tablets for oral administration containing 7.5 mg or 1.1 mg mebxicam has 10.5 are available as tablets for oral administration containing 7.5 mg or 1.1 mg mebxicam has 10.5 mg or 1.1 mg has 10.5 mg or 1.1 mg

on with medical minimum medical medica

### 12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action
Meloxicam has analgesic, anti-inflammatory, and antipyretic properties Mebokan has analysek, anti-inflammatory, and antipyretic properties. The mechanism of action of mebokanis, less that of other SABDIA, is, not completely understood but movies inhibition of cyclosographics (COX-1 and COX-2). Mebokacan is a potential enhanced from the control of the control

### 12.3 Pharmacokinetics

12.3 Pharmacokinetics

Absorption

The absolute bioavailability of motivisan capsules was 89% following a single criti doctor
of 30 mg compared with 30 mg N bolus election. Following single-inflamenous discisof 30 mg compared with 30 mg N bolus election. Following single-inflamenous discismultiple or all doses the pharmacokinetics of medociarm capsules were dose-propriate
over the range of 7.5 mg to 15 mg, Mean C<sub>max</sub> was achieved within four to five hours
after a 7.5 mg medociarm labele was taken under fasted conditions, incitating a
ere rached by D<sub>N</sub> 5. A scorol metabic man one control of the control of the

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

		Steady State		Sing	gle Dose
Pharmacokinetic Parameters (% CV)	Healthy male adults (Fed) <sup>†</sup>	Elderly males (Fed) <sup>†</sup>	Elderly females (Fed) <sup>†</sup>	Renal failure (Fasted)	Hepatic 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
C <sub>max</sub> [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)
V₂/f <sup>§</sup> [L]	14.7 (32)	15 (42)	10 (30)	26 (44)	14 (29)

Distribution

The mean volume of distribution (Vss.) of meloxicam is approximately 10 L. Mebxicam is -99.4% bound to human pissma proteins (primarly abumin) within the threspectic does range. The fraction of protein briding is dependent of drug concentration, over the clinically relevant concentration range, but decreases to -99% in patients with result decrease. Mexicam perentation into human red bodo cies, Mer ori disciple, as less than was present as unchanged mebxicam.

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

# Elimination

Elimination

Metabolism:

Metab

Excretion

Mexicam excretion is predominantly in the form of metabolites, and occurs to equal extents in the urine and faces. Only traces of the unchanged parent compound are excreted in the urine (a 27) and face is 160%. The extent of the urinary excretion was excreted in the uriner to the union year creation was found in urine in the form of metabolites, respectively. There is splinger that blays and/or extent secretion of the drug, dose of netoxicam decreased the AUC of metabolites, respectively. There is splinger from 15 hours to 20 hours. The elimination half-life is constant across dose levels indicating learn metabolism within the therapeutic dose of metabolism clearance can be selected in the control to 30 mL/ms.

that are a constant across doce week indicating lineal metabosism within the therapeutic Specific Populations

Specific Populations

Productive

After airging linear was a general trend of approximately 30% lover approach is younged productive. After airging littler was a general trend of approximately 30% lover approach is younged productive. By the was a general trend of approximately 30% lover approach is younged productive. By the was a general trend of approximately 30% lover approach is younged productive. By the productive specific specif

The pharmacokinetics of meloxicam in pediatric patients under 2 years of age have not been investigated.

Gerlatric:
Blerly males (265 years of age) exhibited meloxicam plasma concentrations and steady-state pharmacoknetics similar to young males. Elderly females (265 years of age) thad a 71% injoiner ALCss and 32% higher Clanacs as Compared to younger females (55 years of age) after body weight normalization. Despite the increased total concentrations in the elderly female, the adverse ever profile was comparable for both elderly periods, the adverse ever profile was comparable for both elderly periods in a valider free fraction was found in elderly female patients in comparison to elderly male patients.

Section Tender, exhibited substitut yours placens concentrations relative to young make. From single doctor of 7.5 mig nelects can then beneat enhancing that file was 18.5 hours for the female group as compared to 23.4 hours for the male group. At Steady state, for the female group as compared to 23.4 hours for the pharmacoknets difference due to gender is likely to be of title clinical importance. There was linearly of pharmacoknetics and no appreciated ofference in the Cam<sub>eno</sub> of T<sub>make</sub> strongs genders.

# Hepatic Impairment:

repeate impariment:

Tolkwing a single 15 mg dose of meloxicam there was no marked difference in plasma concentrations in patients with mid (Chilá-Pugh Class I) or moderate (Chilá-Pugh Class I) in moderate (Chilá-Pugh Class II) in Pagate impariment compared to heavity volunteers, Protein binding of meloxicam was not affected by hepaic impariment. No dosage adjustment is necessary in patient with mid to moderate hepaic impariment. Patients with severe hepaic impariment (Chilá-Pugh Class IIII) have not been adequately studied (see Warnings and Precaudons (5.2) and use in Specific Populations (5.2) and use in Specific Populations (5.2).

retail impairment. Total drug plasma concentrations of metrician decreased and statement of missional microsed with the dispite of most implement which the Malc values were similar in all groups. The higher medioicam clearance in subjects with real magnament may be due to increased friction of unbound mediciam which is available for hepait metabolism and subsequent excretion. No dissage adjustment is necessary have not been applied to the control of th

nemonalysis: Following a single dose of meloxicam, the free C<sub>max</sub> plasma concentrations were higher in patients with renal failure on chronic hemodialysis (1% free fraction) in comparison to healthy volunteers (0.3% free fraction). Hemodialysis did not lower the total drug concentration in plasma; therefore, additional doses are not necessary after hemodialysis. Meloxicam's not dialyzable (see Dosage and Administration (2.1) and Use hemodialysis. Meloxicam is not dialya in Specific Populations (8.7)].

Aspirin: When MSAIDs were administered with aspirin, the protein binding of MSAIDs were reduced, although the clear arcs of free MSAID was not altered. When metackers is the many control of the interaction is not known. See Table 3 for clinically significant drug interactions of MSAIDs with aspirin [see Imprileractions (7)].

Pretreatment for four days with cholestyramine significantly increased the clearance of mebxican by 50%. This resulted in a decrease in 1<sub>5,0</sub> from 19.2 hours to 12.5 hours, and a 35% reduction in AUC. This suggests the existence of a recruication pathway for mebxican in the gastrointestinal tract. The clinical relevance of this interaction has not been established.

Deen established.

Cimetidine:

Concomitant administration of 200 mg cimetidine four times daily did not alter the single dose pharmacokhetics of 30 mg meloxicam.

### Digoxin:

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

### Lithium:

In a study conducted in healthy subjects, mean pre-dose lithium concentration and AUC were increased by 21% in subjects receiving lithium doses ranging from 804 to 1072 mg twice daily with meloxicam 15 mg Q0 every day as compared to subjects receiving lithium alone [see Drug Interactions (7)].

Warfarix

The effect of meloxicam on the anticoagulant effect of warfarin was studied in a group of healthy subjects receiving daily doses of warfarin that produced an INR (International Normized Ratio) between 12 and 1.8 in these subjects molecular did not alter developed the subject of th

### 13 NONCLINICAL TOXICOLOGY

# 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Cartinogenesis
There was no increase in tumor incidence in long-term carcinogenichy studies in rats (104 weeks) and mice (99 weeks) administered meloxicam at oral doses up to 0.8 mg/gdgy) ar in eight up to 0.5 and 2.6 times, respectively, the maximum recommended human dose [MRHD] of 15 mg/dgy meloxicam based on body surface area [1654] comparison).

Mebukam 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.

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).

### 14.1 Osteoarthritis and Rheumatoid Arthritis

14.1 Osteoarthriks and Rheumatoid Arthriks
The use of relockam for the treatment of the signs, and syngtoms of osteoarthriks of
13.75 mg, 7.8 mg, and 15 mg daily was compared to place. In motivate that Mexica an
13.75 mg, 7.8 mg, and 15 mg daily was compared to place. The flour primary
endpoints were investigators global assessment, patient global assessment, patient place.

13.75 mg, 7.8 mg, 7.

The use of melocities and the province in each of the use and the use of the school for the use of melocities for the management of signs and symptoms of esteadrithtis was evaluated in six double-bird, active-controlled trials outside the U.S. ranging from 4 weeks to 6 months druation. In these this, the efficacy of melocities of uses of 7.5 migding and consistent with the efficacy seen in the U.S. trial.

The use of melocities for the treatment of the signs and symptoms of rheumation attricts was evaluated in a 12-week, double-bird, controlled multinational trial Melocities (13.1 mg, and 22.3 mg daily was compared to placebo. The primary Melocities (13.1 mg, and 22.5 mg daily was compared to placebo. The primary suboratory, and functional measures of fix response. Patients receiving melocities or good and 35 mg daily was observed by the work of the compared with the use of the compared was an extra control of the compared to 15 mg daily controlled to to 15 mg daily contro

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

10 mW sur-ricip/3 invalor and manufacture
Mediciaem Tables USP are available as light yellow coloured, round, biconvex tablets, or plain on one side and debossed with 7.5 on other side containing mediciaem 7.5 mg or as light yellow coloured, out sistaped, biconvex tables, plain on one side and debossed with 7.5 mg or more side and debossed with 7.5 mg or available side of the ricip of the side coloured. Tables, and the side coloured tables, and the side coloured tables side of the side of the

Bottles of 100 NDC Bottles of 100 NDC 68180-501-01 Bottles of 1000 NDC 68180-501-03 Meloxicam Tablets USP. 15 mg are available as follows Bottles of 100 NDC 68180-502-01
Bottles of 1000 NDC 68180-502-03

Storage
Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature].

Keep meloxicam tablets USP in a dry place. Dispense tablets in a tight container.

Keep this and all medications out of the reach of children

# 17 PATIENT COUNSELING INFORMATION

Advise the patient to read the 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 (5.1.1).

Advise patients report symptoms of ulcerations and beeding, including epigastric pain, dyspepsis, melena, and hematemesis to their healthcare provider. In the setting of concomitant use of low-dose appirin for cardiac prophysix, inform patients of the increased risk for the signs and symptoms of GI bleeding Issee Warnings and Precautions (5.2)].

Heart Failure and Edema
Advice patients to be aeth of the symptoms of congestive heart failure including shortness of breath, unexplained weight gain, or eitem and to contact their healthcare provider is such symptoms occur feels Warnings and Precautions (5.3)!.

Anaphylactic Reactions
Inform patients of the signs of an anaphylactic reaction (e.g., difficulty breathing, sweling of the face or throat), instruct patients to seek immediate emergency help if these occur face contrainactions of all Warnings and Precautions (5.7)!.

Serious Skin Reactions, including DRESS
Advice patients to top taking most own mimediately if they develop any type of rish or fever and to contact their behalt are provider as soon as possible (see Warnings) and Precautions (5.3, 2.10)!

### Female Fertility

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

## Fetal Toxicity

Pretati Toxicky
Inform preparat women to avoid use of meloxicam and other NSAIDs starting at 30 melox gestation because of the risk of the premature closing of the fetal ductus weeks gestation about 20 to 30 melos gestation, advise her that she may need to be membered from about 20 to 30 weeks gestation, advise her that she may need to be membered from objective and the starting of the starting and Precautions (51) and Use in Specific Populations (81), and Use in Specific Populations (81), and Use in Specific Populations (81), and Use in Specific Populations (81).

Precadions (3.11) and Use in Specific Populations (8.11).

Avaid Concomitation be of MSAIDs information with other InSAIDs or salkylates inform patients that the concomitant use of melosizam with other InSAIDs or salkylates information and a salabalesis in not recommended due to the increased risk of middle processing the processing of the processing o

### Use of NSAIDs and Low-Dose Aspirin

Inform patients not to use low-dose aspirin concomitantly with meloxicam until they talk to their healthcare provider [see Drug Interactions (7)].

to their neamCare provine spee Drug Interactions (7).

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Manufactured for:

Luiph Pharmaceuticas, Inc.

Battmore, Manyland 21202

United States

# MADE IN INDIA

Revised: June 2021 267982

ID#:

# Meloxicam Tablets USF (mel-OX-i-kam)

7.5 mg and 15 mg

Rx Only

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.

If you take NSAIDs after a recent heart attack, increased risk of another heart attack if you take NSAIDs after a recent heart attack, increased in the notation of the expension of

- that may cause death The risk of getting an ulcer or bleeding increases with: past history of stomach ulcest, or stomach or inestinal bleeding with use of NSAIDs lating medicine called 'Lord's article capacitats', "SSRIs", or "SWRIss" bringer use of NSAIDs smoking drinking alcohol or showing alcohol or showing alcohol or showing alcohol 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?

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

- 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 If you have had an asthma attack, hives, or other NSAIDs.
   right before or after heart bypass surgery.

# Before taking NSAIDS, tell your healthcare provider about all of your medical conditions, including if you: - have liver or kidney problems - have high blood pressure - have shiph blood pressure

- have asthma are pregnate or prise to become pregnant. Taking NSAIDs at about 20 weeks of are pregnated may have you real unborn bably 19 you need to take NSAIDs for more than 2 days when you are between 20 and 30 weeks of pregnancy, you healthcare provider may need to monthor the amount of fluid in your womb or your bably. You should not take NSAIDs after about 30 weeks of pregnat are breastfeeding or plan to breast flow.

Tell your healthcare provider about all of the medicines you take, including prescription or over-the-counter medicines, vitamins or herbal supplements NSAIDs and some other medicines on interact with each other and cause serious side effects. Do not start taking any new medicine without taking to your health care provider first.

# What are the possible side effects of NSAIDs?

NSAIDs can cause serious side effects, includ

# See "What is the most important information I should know about medicines called Nonsteroidal Anti-inflammatory Drugs (NSAIDs)?" • new or worse high blood pressure

- Called Monsteroids Ant-Enflammatory Drugs (NSAIDs)?\*

   Near or worse high blood pressure

   heart falure

   Near problems including Neer falure

   kidney probl

# Get emergency help right away if you get any of the following symptoms: • shortness of breath or trouble breathing

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

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

- nausea
   vomit blood
   more tired or weaker than usual
   there is blood in your bowel movement or it is black and sticky like tar

- there is blood in your bowel movement or diarrhea
   itching
   itching
   unusual weight gain
   your skin or eyes look yellow
   skin rash or bitsers with fever
   indigestion or stomach pain
   swelling of the arms, legs, hands and feet
   flu-like symptoms

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

These are not all the possible side effects of NSAIDs. For more information, ask your healthcare provider or pharmacist about NSAIDs.

Cal your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

# General information about the safe and effective use of NSAIDs

Medicines are sometimes prescribed for purposes other than those listed in a Medicati Guide. Do not use NSAIDs for a condition for which it was not prescribed. Do not give NSAIDs to other people, even if they have the same symptoms that you have. It may

If you would like more information about NSAIDs, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about NSAIDs that is written for health professionals. This Medication Guide has been approved by the U.S. Food and Drug Administration

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Manufactured for: Lupin Pharmaceuticals, Inc.

Baltimore, Maryland 21202 United States MADE IN INDIA.

Revised: June 2021 267983 Meloxicam Tablets USP

7.5 mg Fach tablet contains meloxicam USP 7.5 mg.

NDC 68180-501-01



Meloxicam Tablets USP

Medicacam Labers USP 15 mg Each tablet contains meloxicam USP 15 mg. NDC 68180-502-01 Rx only 100 Tablets



me	ELOXICAN loxicam tablet						
Pi	roduct Infor	mation					
Pr	oduct Type		HUMAN PRESCRIPTION DRUG	Item	Code (Source)	NDC	:68180-501
Ro	ute of Admin	istration	ORAL				
A	tive Ingred	ient/Activ	Moietv				
		Ingr	edient Name		Basis of St	renath	Strengt
м	LOXICAM (UNI:	VG2QF83CGL	) (MELOXICAM - UNIT-VG2QF83CGL)		MELOXICAN		7.5 mg
In	active Ingre	dients					
			Ingredient Name			9	Strength
	ICON DIOXIDE						
	DIUM CITRATE		(ULR) NE (UNI: OP1R32D61U)			_	
	VIDONE (UNII: F		NE (UNI: UP1832061U)				
	CTOSE MONOH		: EWO5708I5X)				
	GNESIUM STEA OSPOVIDONE (		0097M6(30) 5%) (UNE: 68401960MK)				
CR		15 MPA.S AT	5%) (UNI: 68401960MK)				
Pr	OSPOVIDONE (	15 MPA.S AT	5%) (UNI: 68401960MK)	Score		no	score
Pr	ospovidone (	ncteristics	5%) (UNI: 68401960MK)	Score		no 8m	
Pr Co	ospovidont ( roduct Charalor	ncteristics	5%) (UNE: 68401960MK)  pht Yellow)	Size	nt Code		nm
Pr Co Sh	ospovidont ( oduct Char- lor ape	ncteristics	5%) (UNE: 68401960MK)  pht Yellow)	Size		Sm	nm
Pr Co Sh Fla	ospovidone ( roduct Chara lor ape	ncteristics	5%) (UNE: 68401960MK)  pht Yellow)	Size	nt Code	8n 7;5	nm S
Pr Co Sh Fla Co	ospovidone ( roduct Chara lor ape avor ntains ackaging Item Code	acteristics YELLOW (LI ROUND (Ro	5%) (UNE: 654019609K)  ipht Yestow)  and, Econnext  ackage Description	Size		8n 7;1	nm S
Pr Co Sh Fla Co	ospovidone ( roduct Chara for ape avor ntains ackaging Item Code NDC:68180-501-01	acteristics YELLOW (Li ROUND (Ro  POUND (Ro  POUND (Ro  Product	5%) (MN: 684019609K)  ght Yellow)  and, Biconvex)  sckage Description  Titl: Type 6: Ret a Combination	Size	nt Code nt Code keting Start Date	8n 7;1	eting End
Pr Co Sh Fla Co	roduct Chara for ape wor ntains bckaging Item Code NDC:68180-501-01 NDC:68180-501-01	acteristics YELLOW (III ROUND (Ro  PO in 1 BO) Product 1000 in 1 BO Product	5%) (INR: 684018609K)  It Yellow)  Int. Storners)  ackage Description  TLE: Type 0: Not a Combination  TLE: Type 0: Not a Combination	Size Impri	nt Code  keting Start Date	7;	eting End Date
Pr Co Sh Fla Co	roduct Chara for ape wor ntains bckaging Item Code NDC:68180-501-01 NDC:68180-501-01	acteristics YELLOW (III ROUND (Ro  PO in 1 BO) Product 1000 in 1 BO Product	5%) (MN: 684019609K)  ght Yellow)  and, Biconvex)  sckage Description  Titl: Type 6: Ret a Combination	Mar 07/19/2	nt Code  keting Start Date	8n 7;3 Mark 06/30/20	eting End Date
Pr Co Sh Fla Co	ospovidone (  roduct Chari for ape nvor ntains  ackaging Item Code NDC:68180-501- 03 NDC:68180-501- 03 NDC:68180-501- 03	15 MPA.S AT  SCLETISTIC: YELLOW (LI ROUND (Ro  100 in 1 807  Product 1000 in 1 807  Product 1000 in 1 807  Product	5%) (INR: 6840186980)  jot Yellow)  sockage Description  TLE: Type 0: Not a Combination  LE: Type 0: Not a Combination	Size Impri Mar 07/19/2	nt Code  keting Start Date	8n 7;3 Mark 06/30/20	eting End Date
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8	roduct Infor	mation					
P	roduct Type		HUMAN PRESCRIPTION DRUG	Item	Code (Source)	NDC	:68180-502
R	oute of Admini	istration	ORAL				
A	ctive Ingredi	ient/Active	Moiety				
		Ingn	edient Name		Basis of St	rength	Strengt
м	ELOXICAM (UNI:	VG2QF83CGL	) (MELOXICAM - UNIT VG2QF83CGL)		MELOXICAN		15 mg
li	nactive Ingre	dients					
			Ingredient Name			9	Strength
	LICON DIOXIDE						
	DDIUM CITRATE						
	ELLULOSE, MICR OVIDONE (UNII: F.		NE (UNI: OP1R32D61U)				
	ACTOSE MONOH		ELECTRONICO.				
	AGNESIUM STEA						
			5%) (UNI: 68401960MK)				
	roduct Chara	acteristics					
c	olor	YELLOW (I	ight Yellow)	Score			score
c	olor hape	YELLOW (I		Size		11n	
S	olor hape lavor	YELLOW (I	ight Yellow)		t Code		
S	olor hape	YELLOW (I	ight Yellow)	Size	t Code	11n	
C Si Fi C	olor hape lavor	YELLOW (I	ight Yellow)	Size	t Code	11n	
C Si Fi C	olor hape lavor ontains	YELLOW (I	ight Yellow)	Size Imprin	t Code rketing Start Date	11n 15	
C SIFI C	olor hape lavor ontains ackaging Item Code NDC:68180-502-	Pi DO in 1 BOT Product	ight Yellow) II, Bicsrivex)  ackage Description  TLE: Type 0: Not a Combination	Size Imprin	rketing Start Date	11n 15	eting End
C S FI C	olor hape lavor ontains  ackaging Item Code NDC:68180-502- 01 NDC:68180-502- 03	Pillow (i OVAL (Ovi 100 in 1 807 Product 1000 in 1 80 Product	ight Yellow)  II. Biconvex)  ackage Description  TLE: Type 0: Not a Combination  UTLE: Type 0: Not a Combination	Size Imprin Ma	rketing Start Date	11n 15 Mark	eting End Date
C S FI C	olor hape lavor ontains  ackaging Item Code NDC:68180-502- 01 NDC:68180-502- 03	Pillow (i OVAL (Ovi 100 in 1 807 Product 1000 in 1 80 Product	ight Yellow) II, Bicsrivex)  ackage Description  TLE: Type 0: Not a Combination	Size Imprin Ma	rketing Start Date 12006	11n 15 Mark 05/31/20	eting End Date
C S F C P 2 3	ackaging Item Code NDC:68180-502- 03 NDC:68180-502- 09	Pillow (i OVAL (Ovi ) 100 in 1 BOT Product 90 in 1 BOT Product	July Evillon)  A, Biconvex)  sckage Description  TLE: Type 0: Not a Combination  TLE: Type 0: Not a Combination	Ma 07/19	rketing Start Date 12006	11n 15 Mark 05/31/20	eting End Date
C S F C P 2 3	ackaging Rem Code NDC:68180-502-03 NDC:68180-502-03	Pillow (i OVAL (Ovi ) Pillo in 1 BOT Product 1000 in 1 BCT Product 90 in 1 BOT Product	Jgbt Yullow)  ackage Description  TLE; Type 0: Not a Combination  TLE; Type 0: Not a Combination  LE; Type 0: Not a Combination	Ma 07/19/ 01/01/	rketing Start Date 12006 12006 12040	11n 15 Mark 05/31/20	eting End Date (20
C SI FI C	ackaging Item Code NDC:68180-502- 03 NDC:68180-502- 09	Pillow (i OVAL (Ovi ) Pillo in 1 BOT Product 1000 in 1 BCT Product 90 in 1 BOT Product	July Evillon)  A, Biconvex)  sckage Description  TLE: Type 0: Not a Combination  TLE: Type 0: Not a Combination	Ma 07/19/ 01/01/	rketing Start Date 12006	11n 15 Mark 05/31/20 07/31/20	eting End Date

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Registrant - LUPIN LIMITED (675923163) Establishment
Name Address ID/FE Business Operations
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