

#### HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use DICLOFENAC POTASSIUM FOR ORAL SOLUTION safely ely. See full prescribing information for DICLOFENAC POTASSIUM FOR ORAL SOLUTION

DICLOFENAC POTASSIUM, for oral solution

Initial U.S. Approval: 1988

### WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS

- See full prescribing information for complete boxed warning Non-steroidal anti-inflammatory drugs (NSAIDs) cause an increased risk of serious cardiovascular thrombotic events, including myocardial infarction and stroke, which can be fatal. This risk may occur early in treatmer and may increase with duration of use (5.1)
- Diclofenac potassium for oral solution is contraindicated in the setting of coronary artery bypass graft (CABG)
- surgery (4, 5, 1) NSAIDs cause an increased risk of serious gastrointestinal (GI) adverse events including bleeding, ulceration and perforation of the stomach or intestines, which can be fatal. These events can occur at any time during use and without warning symptoms. Elderly patients and patients with a prior history of peptic ulcer disease and/or GI bleeding are at greater risk for serious GI events (5.2)

#### ......BECENT MAJOB CHANGES....

Warnings and Precautions (5.9)

#### ····INDICATIONS AND USAGE···

Diclofenac potassium for oral solution is a non-steroidal anti-inflammatory drug (NSAID) indicated for the acute treatment of migraine attacks with or without aura in adults 18 years of age or older (1) Limitations of Use (1):

- Diclofenac potassium for oral solution is not indicated for the prophylactic therapy of migraine
- Safety and effectiveness of diclofenac potassium for oral solution not established for cluster headache, which is present in an older, predominantly male population

#### ......DOSAGE AND ADMINISTRATION...

Single 50 mg dose; mix single packet contents with 1 to 2 ounces (30 to 60 mL) of water prior to administration • Use the lowest effective dose for shortest duration consistent with individual patient treatment goals (2.1) 

# Packets: Each containing buffered diclofenac potassium 50 mg in a soluble powder (3)

- .....CONTRAINDICATIONS ....
- Known hypersensitivity to diclofenac or NSAIDs or any components of the drug product (4) History of asthma, urticaria, or other allergic-type reactions after taking aspirin or other NSAIDs (4)
- In the setting of (CABG) surgery (4)
- ·····WARNINGS AND PRECAUTIONS····
- <u>Hepatotoxicity</u>: Inform patients of warning signs and symptoms of hepatotoxicity. Discontinue if abnormal liver tests persist or worsen or if clinical signs and symptoms of liver disease develop (5.3, 8.6, 12.3) Hypertension: Patients taking some antihypertensive medications may have impaired response to these therapies when
- taking NSAIDs. Monitor blood pressure (5.4, 7)

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# FULL PRESCRIBING INFORMATION

- WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS
- Cardiovascular Thrombotic Events

   Nonsteroidal anti-inflammatory drugs (NSAIDs) cause an increased risk of serious cardiovascular thrombotic
   in tractmon
   in tr
- events, including myocardial infarction and stroke, which can be fatal. This risk may occur early in treatmer
- and may increase with duration of use [see Warnings and Precautions (5.1)].
- biolofenace potassium for oral solution is contraindicated in the setting. Coronary artery bypass graft (CABG) surgery [see Contraindications (4) and Warnings and Precautions (5. 1)].
- trointestinal Bleeding, Ulceration, and Perforation NSAIDs cause an increased risk of serious gastroi inal (GI) adverse events including bleeding, ulceration and perforation of the stomach or intestines, which can be fatal. These events can occur at any time during use and without warning symptoms. Elderly patients and patients with a prior history of peptic ulcer disease and/or GI bleeding are at greater risk for serious GI events [*see Warnings and Precautions (5-2)*].
- INDICATIONS AND USAGE
- iclofenac potassium for oral solution is indicated for the acute treatment of migraine attacks with or without aura in adults (18 years of age or older). Limitations of Use: • Diclofenac potassium for oral solution is not indicated for the prophylactic therapy of migraine.

  - The safety and effectiveness of diclofenac potassium for oral solution have not been established for cluster headache.

- <u>near training and central</u>. Avoid use of incontence procession for our solution in parents with severe near training dimensions benefits are expected to outweigh risk of worsening heart failure (5.5) <u>Renal Taxicity:</u> Monitor renal function in patients with renal or hepatic impairment, heart failure, dehydration, or
- hynovolemia. Avoid use of diclofenac notassium for oral solution in natients with advanced renal disease unless benefits are expected to outweigh risk of worsening renal function (5.6)

Heart Failure and Edema: Avoid use of diclofenac potassium for oral solution in patients with severe heart failure unless

- Anaphylactic Reactions: Seek emergency help if an anaphylactic reaction occurs (5.7)
- Exacerbation of Asthma Related to Aspirin Sensitivity: Diclofenac potassium for oral solution is contraindicated in patients with aspirin-sensitive asthma. Monitor patients with preexisting asthma (without aspirin sensitivity) (5.8) <u>Serious Skin Reactions</u>: Discontinue diclofenac potassium for oral solution at first appearance of skin rash or other signs of
- rsensitivity (5.9) Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS): Discontinue and evaluate clinically (5.10)
- Medication Overuse Headache: Detoxification may be necessary, (5.11)
- <u>Heat Constitution of the second seco</u>
- pregnancy due to the risks of oligohydramnios/fetal dysfunction and premature closure of the fetal ductus arteriosus (5.12, 8.1) Hematologic Toxicity: Monitor hemoglobin or hematocrit in patients with any signs or symptoms of anemia (5.13, 7)

### ------ADVERSE REACTIONS-----

Most common adverse reactions (≥ 1% and > placebo) were naisea and dizziness (6.1) To report SUSPECTED ADVERSE REACTIONS, contact Annora Pharma Private Limited at 1-866-495-1995 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

#### -DRUG INTERACTIONS-

- <u>Drugs that Interfere with Hemostasis (e.g. warfarin, aspirin, SSRIs/SNRIs)</u>: Monitor patients for bleeding who are concomitantly taking diclofenac potassium for oral solution with drugs that interfere with hemostasis. Concomitant use of diclofenac potassium for oral solution and analgesic doses of aspirin is not generally recommended (7) .
- ACE Inhibitors and ARBs: Concomitant use with diclofence of parsition of general solution in elderly, volume depleted, or those with renal impairment may result in deterioration of renal function. In such high risk patients, monitor for signs of worsening renal function (7)
- <u>Diuretics</u>: NSAIDs can reduce natriuretic effect of loop and thiazide diuretics. Monitor patients to assure diuretic efficacy including antihypertensive effects (7)
- Dinaxin: Concomitant use with diclofenac potassium for oral solution can increase serum concentration and prolong half-life of digoxin. Monitor serum digoxin levels (7
- .....USE IN SPECIFIC POPULATIONS... Infertility: NSAIDs are associated with reversible infertility. Consider withdrawal of diclofenac potassium for oral solution in women who have difficulties conceiving (8.3)

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DRUG INTERACTIONS

Pregnancy

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8.6 Hepatic Impairment

CLINICAL PHARMACOLOGY

short-term NSAID therapy is not without risk.

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

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13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

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

postmarketing reports of fatal filterents occurred in elderly or debilitated patients. Additionally, patie and/or coagulopathy are at increased risk for GI bleeding.

Use the lowest effective dosage for the shortest possible duration.
 Avoid administration of more than one NSAID at a time.

evidence of GI bleeding [see Drug Interactions (7/].

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See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

### Hyperkalemia

Impersional 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 hyporeninemichynnaldosteronism state

#### 5.7 Ananhylactic Reactions

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

#### Seek emergency help if an anaphylactic reaction occurs.

5.8 Exacerbation of Asthma Related to Aspirin Sensitivity A subpopulation of patients with asthma may have aspirin-sensitive asthma which may include chronic rhinosinusitis complicated by nasal polyps; severe, potentially fatal bronchospasm; and/or intolerance to aspirin and other NSAIDs. Because cross-reactivity between aspirin and other NSAIDs has been reported in such aspirin-sensitive patients, diclofenac potassium is contraindicated in

# patients with this form of aspirin sensitivity [see Contradictions 4]. When dicidence potassium is used in patients with preexisting asthma (without known aspirin sensitivity), monitor patients for changes in the signs and symptoms of asthma.

#### 5.9 Serious Skin Reactions

NSAIDs, including diclofenac, can cause serious skin adverse reactions such as exfoliative dermatitis, Stevens-Johnson Syndrome (SJS), and toget indexed and the second start averse reactions such as extronative demandity, ceremissions source is source and drug emption (FDE). FDE may present as a more severe variant known as generalized bullous fixed drug emption (GBFDE), which can be fire-threatening. These serious events may occur without warning, form patients about the signs and symptoms of serious skin reactions, and to discontinue the use of diclofenac potassium at the first appearance of skin rash or any other sign of hypersensitivity. Diclofenac potassium is contraindicated in patients with previous serious skin reactions to NSAIDs [see Contraindications (4]].

#### 5.10 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)

Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) has been reported in patients taking NSAIDs such as diclofenac potassium. Some of these events have been fatal or life-threatening. DRESS typically, although not exclusively, presents with fever, rash, lymphadenopathy, and/or facial swelling. Other clinical manifestations may include hepatitis, nephritis, hematological abnormalities, myocarditis, or myositis. Sometimes symptoms of DRESS may resemble an acute viral infection. Eosinophilia is often present. Because this disorder is variable in its presentation, other organ systems not noted here may be involved. It is important to present, because this usorder is variable in its presentation, other organ systems into indeel neer neigy envoyee, it is important to note that early manifestations of hypersensitivity, such as fever or lymphadenopathy, may be present even though rash is not evident. If such signs or symptoms are present, discontinue diclofenac potassium and evaluate the patient immediately. 5.11 Medication Overuse Headache

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ts with advanced liver disease

Overuse of acute migraine drugs (e.g., ergotamine, triptans, opioids, nonsteroidal anti-inflammatory drugs or combination of these drugs for 10 or more days per month) may lead to exacerbation of headache (medication overuse headache). Medication overuse headache may present as migraine-like daily headaches or as a marked increase in frequency of migraine attacks. Detoxification of patients, including withdrawal of the overused drugs and treatment of withdrawal symptoms (which often includes a transient worsening of headache) may be necessary

#### 5.12 Fetal Toxicity Premature Closure of Fetal Ductus Arteriosus

Avoid use of NSAIDs, including diclofenac potassium, in pregnant women at about 30 weeks gestation and later. NSAIDs, including diclofenac potassium, increase the risk of premature closure of the fetal ductus arteriosus at approximately this gestational age. Oligohydramnios/Neonatal Renal Impairment

Use of NSAIDs, including diclofenac potassium, at about 20 weeks gestation or later in pregnancy may cause fetal renal dysfunction to weeks of treatment, although oligohydramnios has been infrequently reported as soon as 48 hours after NSAID initiation.

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

If NSAID treatment is necessary between about 20 weeks and 30 weeks gestation, limit diclofenac potassium use to the lowest effective dose and shortest duration possible. Consider ultrasound monitoring of amniotic fluid if diclofenac potassium treatment extends beyond 48 hours. Discontinue diclofenac potassium if oligohydramnios occurs and follow up according to clinical practice (see Use in Specific Population (8.1)).

#### 5.13 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 upon erythropoiesis. If a patient treated with diclofenac potassium has any signs or symptoms of anemia hemoglobin or hematocrit

NSAIDs, including diclofenac potassium, may increase the risk of bleeding events. Concomitant use of warfarin and other including inducence pression, may increase the risk of bleeping events, concentration of the anticoagularity and strengthenergy and the anticoagularity anticoagular platelet function for signs of bleeding [see Drug Interactions (7/].

The pharmacological activity of diclofenac potassium in reducing inflammation, and possibly fever, may diminish the utility of

Because serious Glibeleding, hepatotxicity, and renal injury can occur without warning symptoms or signs, consider monitoring patients on long-term NSAID treatment with a CBC and a chemistry profile periodically [see Warnings and Precautions (5.2, 5.3, 5.6)].

Discontinue diclofenac potassium if abnormal liver tests or renal tests persist or worsen.

GI Bleeding, Ulceration and Perforation [see Warnings and Precautions (5.2)]

Renal Toxicity and Hyperkalemia [see Warnings and Precautions (5.6/]

Medication Overuse Headache [see Warnings and Precautions (5.11/]
 Hematologic Toxicity [see Warnings and Precautions (5.13/]

diclofenac potassium than with placebo were nausea and dizziness (see Table 1).

Hepatotoxicity [see Warnings and Precautions (5.3/]

Anaphylactic Reactions [see Warnings and Precautions (5.7]]

 Hypertension [see Warnings and Precautions (5.4)] Heart Failure and Edema [see Warnings and Precautions (5.5/]

The following serious adverse reactions are discussed in greater detail in other sections of the labeling Cardiovascular Thrombotic Events [see Warnings and Precautions (5. 1/]

#### 5.14 Masking of Inflammation and Fever

diagnostic signs in detecting infections

ADVERSE REACTIONS

6.1 Clinical Trials Experience

5.15 Laboratory Monitoring

# DOSAGE AND ADMINISTRATION

2.1 Acute Treatment of Migraine Administer one packet (50 mg) of diclofenac potassium for oral solution for the acute treatment of migraine. Empty the contents of one packet into a cup containing 1 to 2 ounces (30 to 60 mL) of water, mix well and drink immediately.

#### Do not use liquids other than water.

Taking diclofenac potassium for oral solution with food may cause a reduction in effectiveness compared to taking diclofenac potassium for oral solution on an empty stomach [see Clinical Pharmacology (12.3/]

Use the lowest effective dose for the shortest duration consistent with individual patient treatment goals. The safety and effectiveness of a second dose have not been established.

### 2.2 Non-Interchangeability with Other Formulations of Diclofenac

Different formulations of oral diclofenac (e.g., diclofenac potassium for oral solution, diclofenac sodium enteric-coated tablets, diclofenac sodium extended-release tablets, or diclofenac potassium immediate-release tablets) may not be bioequivalent even if the milligram strength is the same. Therefore, it is not possible to convert dosing from any other formulation of diclofenac to diclofenac not assium for oral solution

### 3 DOSAGE FORMS AND STRENGTHS

Diclofenac potassium for oral solution is available in individual packets each designed to deliver a 50 mg dose when mixed in water.

## 4 CONTRAINDICATIONS

- Diclofenac potassium for oral solution is contraindicated in the following patients: Known hypersensitivity (e.g., anaphylactic reactions and serious skin reactions) to diclofenac or any components of
  - e drug product [see Warnings and Precautions (5.7, 5.9/] History of asthma, urticaria, or other allergic type reactions after taking aspirin or other NSAIDs. Severe, sometimes
  - fatal, anaphylactic reactions to NSAIDs have been reported in such patients [see Warnings and Precautions (5.7, 5.8)] In the setting of coronary artery bypass graft (CABG) surgery [see Warnings and Precautions (5.1)]

# WARNINGS AND PRECAUTIONS

# 5.1 Cardiovascular Thrombotic Events

Clinical trials of several COX-2 selective and nonselective NSAIDs of up to three years duration have shown an increased risk of serious cardiovascular (CV) thrombotic events, including myocardial infarction (MI) and stroke, which can be fatal. Based on available data, it is unclear that the risk for CV thrombotic events is similar for all NSAIDs. The relative increase in serious CV thrombotic events over baseline conferred by NSAID use appears to be similar in those with and without known CV disease or risk factors for CV disease. However, patients with known CV disease or risk factors had a higher absolute incidence of excess serious CV thrombotic events, due to their increased baseline rate. Some observational studies found that this increased risk of serious CV thromhotic events began as early as the first weeks of treatment. The increase in CV thromhotic risk has been observed most consistently at higher doses

To minimize the potential risk for an adverse CV event in NSAID-treated patients, use the lowest effective dose for the shortest duration possible. Physicians and patients should remain alert for the development of such events, throughout the entire treatment course, even in the absence of previous CV symptoms. Patients should be informed about the symptoms of serious CV events and the steps to take if they occur.

There is no consistent evidence that concurrent use of aspirin mitigates the increased risk of serious CV thrombotic events associated with NSAID use. The concurrent use of aspirin and an NSAID, such as diclofenac, increases the risk of serious al (GI) events [see Warnings and Precautions (5.2/].

surgery found an increased incidence of myocardial infarction and stroke. NSAIDs are contraindicated in the setting of CABG [see

#### Status Post Coronary Artery Bypass Graft (CABG) Surgery Two large, controlled clinical trials of a COX-2 selective NSAID for the treatment of pain in the first 10 to 14 days following CABG

Contraindications (4)]. Post-MI Patients Observational studies conducted in the Danish National Registry have demonstrated that patients treated with NSAIDs in the post-Where a transmission of the particular region of the particular region of the particular partite particular pa to 12 per 100 person years in non-NSAID exposed patients. Although the absolute rate of death declined somewhat after the first year post-MI, the increased relative risk of death in NSAID users persisted over at least the next four years of follow-up.

Avoid the use of diclofenac potassium in patients with a recent MI unless the benefits are expected to outweigh the risk of recurrent CV thrombotic events. If diclofenac potassium is used in patients with a recent MI, monitor patients for signs of cardiac ischemia,

#### 5.2 Gastrointestinal Bleeding, Ulceration, and Perforation

NSAIDs, including diclofenac, cause serious gastrointestinal (GI) adverse events including inflammation, bleeding, ulceration, and perforation of the esophagus, stomach, small intestine, or large intestine, which can be fatal. These serious advectes events can occur at any time, with or without warning symptoms, in patients treated with NSAIDs. Only one in five patients who develop a serious upper GI adverse event on NSAID therapy is symptomatic. Upper GI ulcers, gross bleeding, or perforation caused by NSAIDs occurred

Elevations of one or more liver tests may occur during therapy with diclofenac potassium. These laboratory abnormalities may Progress, may persist, or may only be transient with continued therapy. Bordeniae personant income sets than 3 times the upper limit of the normal [ULN] range) or greater elevations of transaminases occurred in about 15% of diclofenac-treated patients. Of the markers of hepatic function, ALT (SGPT) is recommended for the monitoring of liver injury.

in approximately 1% of patients treated for 3 to 6 months, and in about 2% to 4% of patients treated for one year. However, even

<u>Risk Factors for GI Bleeding. Ulceration, and Perforation</u> Patients with a prior history of peptic ulcer disease and/or GI bleeding who used NSAIDs had a greater than 10-fold increased risk for

developing a Gi bleed compared to patients without these risks factors. Uther factors that a greater the risk for Gi bleeding in patients treated with NSAIDs include longer duration of NSAID therapy; concomitant use of oral corticosteroids, aspirin, anticoagulants, or

selective serotonin reuptake inhibitors (SSRI); smoking; use of alcohol; older age; and poor general health status. Most

risk patients, as well as those with active GI bleeding, consider alternate therapies other than NSAIDs. Remain alert for signs and symptoms of GI ulceration and bleeding during NSAID therapy.

Avoid use in patients at higher risk unless benefits are expected to outweigh the increased risk of bleeding. For high

If a serious GI adverse event is suspected, promptly initiate evaluation and treatment, and discontinue diclofenac

n a sensus of averse event is suspected, prompty mitiate evaluation and reatment, and uscontinue dictorence potassium until aserious Gladverse event is ruled out. In the setting of concomitant use of low-dose aspirin for cardiac prophylaxis, monitor patients more closely for

In clinical trials, meaningful elevations (i.e., more than 3 times the ULIN) of AST (SGOT) occurred in about 2% of approximately 5,700 patients at some time during treatment (ALT was not measured in all studies). In an open-label, controlled trial of 3,700 patients treated for 2 to 6 months, patients were monitored at 8 weeks and 1,200 patients were monitored again at 24 weeks. Meaningful levations of ALT and/or AST occurred in about 4% of the 3 700 nations and included marked elevations ( > 8 times the ULIN) in about 1% of the 3,700 patients. In this open-label study, a higher incidence of borderline (less than 3 times the ULN), moderate (3 to 8 times the ULN), and marked (>8 times the ULN) elevations of ALT or AST was observed in patients receiving diclofenac when compared to other NSAIDs. Almost all meaningful elevations in transaminases were detected before patients became symptomatic [see Warnings and Precautions (5.15)].

Abnormal tests occurred during the first 2 months of therapy with diclofenac in 42 of the 51 patients in all trials who developed marked transaminase elevations. In postmarketing reports, cases of droug-induced hepatotoxicity have been reported in the first month, and in some cases, the first 2 months of NSAID therapy, but can occur at any time during treatment with diclofenac.

Postmarketing surveillance has reported cases of severe hepatic reactions, including liver necrosis, jaundice, fulminant hepatitis with and without jaundice, and liver failure. Some of these reported cases resulted in fatalities or liver transplantation

Inform patients of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, diarrhea, pruritus, jaundice and "flu-like" symptoms). If clinical signs i right upper quadrant tenderness, and "flu-like" symptoms). If clinical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophilia, rash, etc.), discontinue diclofenac potassium immediately, and perform a clinical evaluation of the patient.

To minimize the potential risk for an adverse liver-related event in patients treated with diclofenac potassium, use the lowest effective dose for the shortest duration possible. Exercise caution when prescribing diclofenac potassium with concomitant drugs that are known to be potentially hepatotoxic (e.g., acetaminophen, certain antibiotics, antiepileptics). Caution patients to avoid taking nonprescription acetaminophen containing products while using diclofenac potassiu

#### 5.4 Hypertension

NSAIDs, including diclofenac potassium, can lead to new onset of hypertension or worsening of pre-existing hypertension, either of which may contribute to the increased incidence of CV events. Use NSAIDs, including diclofenac potassium, with caution in patients with hypertension. Monitor blood pressure closely during the initiation of NSAID treatment and throughout the course of therapy. Patients taking angiotensin converting enzyme (ACE) inhibitors, thiazides, or loop divertics may have impaired response to these therapies when taking NSAIDs [see Drug Interactions (7/).

#### 5.5 Heart Failure and Edema

The Coxib and traditional NSAID Trialists' Collaboration meta-analysis of randomized controlled trials demonstrated an approximately two-fold increase in hospitalizations for heart failure in COX-2 selective-treated patients and nonselective NSAIDtreated patients compared to placebo-treated patients. In a Danish National Registry study of patients with heart failure, NSAID use ncreased the risk of MI, hospitalization for heart failure, and death.

Additionally, fluid retention and edema have been observed in some natients treated with NSAIDs. Use of diclofenac may blunt the CV effects of several therapeutic agents used to treat these medical conditions (e.g., diuretics, ACE inhibitors, or angiotensin receptor blockers [ARBs]) [see Drug Interactions (7]].

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

#### 5.6 Renal Toxicity and Hyperkalemia

Renal Toxicity Long-term administration of NSAIDs has resulted in renal papillary necrosis and other renal injury. Renal toxicity has also been seen in patients in whom renal prostaglandins have a compensatory role in the maintenance of renal perfusion. In these patients, administration of an NSAID may cause a dose-dependent reduction in prostaglandin formation and, secondarily, in renal blood flow, which may precipitate overt renal decompensation. Patients at greatest risk of this reaction are those with impaired renal function, dehydration, hypovolemia, heart failure, liver dysfunction, those taking diuretics and ACE inhibitors or ARBs, and the elderly

Discontinuation of NSAID therapy is usually followed by recovery to the pretreatment state. No information is available from controlled clinical studies regarding the use of diclofenac potassium in patients with advanced renal

disease. The renal effects of diclofenac potassium may hasten the progression of renal dysfunction in patients with pre-existing renal disease.

Correct volume status in dehydrated or hypovolemic patients prior to initiating diclofenac potassium. Monitor renal function in patients with renal or hepatic impairment, heart failure, dehydration, or hypovolemia during use of diclofenac potassium [see Drug Interactions (7)]. Avoid the use of diclofena potassium in patients with advanced renal disease unless the benefits are expected to outweigh the risk of worsening renal function. If diclofenac potassium is used in patients with advanced renal disease, monitor patients for signs of worsening renal function

Table 1: Adverse Reactions With Incidence > 1% and Greater Than Placebo in Studies 1 and 2 Combine

Serious Skin Reactions (see Warnings and Precautions (5.7)
 Serious Skin Reactions (see Warnings and Precautions (5.7)
 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) [see Warnings and Precautions (5.10]]

Adverse Reactions	Diclofenac Potassium	Placebo
	N=634	N=646
Gastrointestinal		
Nausea	3%	2%
Nervous System		
Dizziness	1%	0.5%

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug

The safety of a single dose of diclofenac potassium was evaluated in 2 placebo-controlled trials with a total of 634 migraine patients

treated with diclofenac potassium for a single migraine headache. Following treatment with diclofenac potassium (either diclofenac

potassium or diclofenac potassium immediate regione tablets [as a control]), 5 subjects (0.8%) withdrew from the studies; following placebo exposure, 1 subject (0.2%) withdrew.

The most common adverse reactions (i.e., that occurred in 1% or more of diclofenac potassium-treated patients) and more frequent with

cannot be directly compared with rates in the clinical trials of another drug and may not reflect the rates observed in practice.

The most common adverse events resulting in discontinuation of patients following diclofenac potassium dosing in controlled clinical trials were urticaria (0.2%) and flushing (0.2%). No withdrawals were due to a serious reaction

#### 6.2 Postmarketing Experience

The following adverse reactions have been identified during post approval use of diclofenac or other NSAIDs. 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 causal relationship to drug exposure.

### Adverse Reactions Reported With Diclofenac and Other NSAIDs

In patients and global and a second second and other MAND second and a second s nausea, Gl ulcers [gastric/duodenal], and vomiting), abnormal renal function, anemia, dizziness, edema, elevated liver enzymes, headaches, increased bleeding time, pruritus, rashes, and tinnitus

Other less frequently occurring adverse reactions identified during post approval use of diclofenac and other NSAIDs include fixed drug eruption [see Warnings and Precautions(5.9)].

Additional adverse reactions reported in patients taking NSAIDs include occasio

Body as a Whole: Fever, infection, sepsis

Cardiovascular System: Congestive heart failure, hypertension, tachycardia, syncope

Digestive System: Dry mouth, esophagitis, gastric/peptic ulcers, gastritis, gastrointestinal bleeding, glossitis, hematemesis, hepatitis, jaundio

Hemic and Lymphatic System: Ecchymosis, eosinophilia, leukopenia, melena, purpura, rectal bleeding, stomatitis, thrombocytope Metabolic and Nutritional: Weight changes

Nervous System: Anxiety, asthenia, confusion, depression, dream abnormalities, drowsiness, insomnia, malaise, nervousness, olence, tremors, vertigo

Respiratory System: Asthma, dyspnea

Skin and Appendages: Alopecia, photosensitivity, sweating increased

Special Senses: Blurred vision

Urogenital System: Cystitis, dysuria, hematuria, interstitial nephritis, oliguria/polyuria, proteinuria, renal failure

Other adverse reactions in patients taking NSAIDs, which occur rarely, are:

Body as a Whole: Anaphylactic reactions, appetite changes, death

Cardiovascular System: Arrhythmia, hypotension, myocardial infarction, palpitations, vasculitis

Digestive System: Colitis, eructation, liver failure, pancreatitis

Hemic and Lymphatic System: Agranulocytosis, hemolytic anemia, aplastic anemia, lymphadenopathy, pancytopenia

Metabolic and Nutritional: Hyperglycemia Nervous System: Convulsions, coma, hallucinations, meningitis

Respiratory System: Respiratory depression, pneumonia

Skin and Appendages: Angioedema, toxic epidermal necrolysis, erythema multiforme, exfoliative dermatitis, Stevens-Johnson

syndrome [see Warnings and Precautions (5.9)], urticaria

Special Senses: Conjunctivitis, hearing impairment

7 DRUG INTERACTIONS

See Table 2 for clinically significant drug interactions with diclofenac. Table 2: Clinically Significant Drug Interactions with Diclofenac

Drugs That Interfere with Hemostasis

		٠	Diclofenac and anticoagulants such as warfarin have a synergistic effect on bleeding. The
			concomitant use of diclofenac and anticoagulants have an increased risk of serious bleeding compared
			to the use of either drug alone.
С	linical Impact:	٠	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.

Medication Guide Diclofenac Potassium for Oral Solution (dye-KLOE-fen-ak poe-TAS-ee-um)	
t information I should know about diclofenac potassium for oral solution? ral solution contains diclofenac (a non-steroidal anti-inflammatory drug or NSAID). ac potassium for oral solution, can cause serious side effects, including: t attack or stroke that can lead to death. This risk may happen early in treatment and may increase: DSAIDs	
ing diclofenac potassium for oral solution, right before or after a heart surgery called a "coronary artery bypass graft	Ħ
uding diclofenac potassium for oral solution, after a recent heart attack, unless your healthcare provider tells you to. risk of another heart attack if you take NSAIDs after a recent heart attack. ing, ulcers, and tears (perforation) of the esophagus (tube leading from the mouth to the stomach), stomach and	o. Id
toms	
or bleeding increases with: h ulcers, or stomach or intestinal bleeding with use of NSAIDs 1 "corticosteroids", "anticoagulants", "SSRIs", or "SNRIs" AIDs o older age o poor health o advanced liver disease o bleeding problems	
ral solution should only be used:	
sible for your treatment seded	
<b>um for oral solution?</b> solution is a prescription medicine used to treat migraine attacks in adults. It does not prevent or lessen the number of migraines her types of headaches. Diclofenac potassium for oral solution contains diclofenac potassium (a non-steroidal anti-inflammatory	es ry
<b>ac potassium for oral solution?</b> r oral solution exactly as your healthcare provider tells you to take it. assium for oral solution to treat your migraine headache: packet you are ready to use it	
ket into 1 to 2 ounces (30 to 60 mL) of water vater and powder mixture :ket in a safe place and out of the reach of children. ssium for oral solution with food may cause a reduction in effectiveness compared to taking diclofenac potassium for oral solution	uc
ofenac potassium for oral solution than directed by your healthcare provider. In case of overdose, get medical help or contact right away	g
<b>enac potassium for oral solution?</b> <b>issium for oral solution:</b> ma attack, hives, or other allergic reaction with aspirin, diclofenac, or any other NSAIDs. art bypass surgery.	
stassium for oral solution, tell your healthcare provider about all of your medical conditions, including if you: blems ach ulcer or bleeding in your stomach or intestines ny medicines ness of breath, irregular heartbeats re	
u might be pregnant, or are trying to become pregnant. Taking NSAIDs, including diclofenac potassium oral solution, at about 20 r later may harm your unborn baby. If you need to take NSAIDs for more than 2 days when you are between 20 and 30 weeks of icare provider may need to monitor the amount of fluid in your womb around your baby. <b>You should not take NSAIDs after about</b> <b>cy.</b> an to breastfeed.	
s different from your usual migraine	

What	t is the most impor
Diclo	Diclofenac potassium
NSAIDs,	Ds, including diclofen creased risk of a hear
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•	have a headache

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Intervention:	Monitor patients with concomitant use of diclofenac potassium with anticoagulants (e.g., warfarin), antiplatelet agents (e.g., aspirin), selective serotonin reuptake inhibitors (SSRIs), and serotonin
Aspirin	norepinephrine reuptake inhibitors (SNRIs) for signs of bleeding [see Warnings and Precautions (5.13/]
Aspirin	
Clinical Impact:	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, 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 [ <i>see Warnings and Precautions (5.2) and Clinical Pharmacology (12.3)</i> ].
Intervention:	Concomitant use of diclofenac potassium and analgesic doses of aspirin is not generally recommended because of the increased risk of bleeding [see Warnings and Precautions (5.13)].
ACE Inhibitors, A	ngiotensin Receptor Blockers, and Beta-blockers
Clinical Impact:	<ul> <li>NSAIDs may diminish the antihypertensive effect of angiotensin converting enzyme (ACE) inhibitors, angiotensin receptor blockers (ARBs), or beta-blockers (including propranolol).</li> <li>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.</li> </ul>
Intervention:	<ul> <li>During concomitant use of diclofenac potassium and ACE-inhibitors, ARBs, or beta-blockers, monitor blood pressure to ensure that the desired blood pressure is obtained.</li> <li>During concomitant use of diclofenac potassium 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)].</li> </ul>
Diuretics	
Clinical Impact:	Clinical studies, as well as post-marketing observations, showed 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.
Intervention:	During concomitant use of diclofenac potassium 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/].
Digoxin	
Clinical Impact:	The concomitant use of diclofenac with digoxin has been reported to increase the serum concentration and prolong the half-life of digoxin.
Intervention:	During concomitant use of diclofenac potassium and digoxin, monitor serum digoxin levels.
Lithium	
Clinical Impact:	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 approximately 20%. This effect has been attributed to NSAID inhibition of renal prostaglandin synthesis.
Intervention:	During concomitant use of diclofenac potassium and lithium, monitor patients for signs of lithium toxicity.
Methotrexate	
Clinical Impact:	Concomitant use of NSAIDs and methotrexate may increase the risk for methotrexate toxicity (e.g., neutropenia, thrombocytopenia, renal dysfunction).
Intervention:	During concomitant use of diclofenac potassium and methotrexate, monitor patients for methotrexate toxicity.
Cyclosporine	
Clinical Impact:	Concomitant use of diclofenac potassium and cyclosporine may increase cyclosporine's nephrotoxicity.
Intervention:	During concomitant use of diclofenac potassium and cyclosporine, monitor patients for signs of worsening renal function.
NSAIDs and Salic	ylates
Clinical Impact:	Concomitant use of diclofenac with other NSAIDs or salicylates (e.g., diflunisal, salsalate) increases the risk of GI toxicity, with little or no increase in efficacy [ <i>see Warnings and Precautions</i> (5.27).
Intervention:	The concomitant use of diclofenac with other NSAIDs or salicylates is not recommended.
Pemetrexed	
Clinical Impact:	Concomitant use of diclofenac potassium and pemetrexed may increase the risk of pemetrexed-associated myelosuppression, renal, and GI toxicity (see the pemetrexed prescribing information).
Intervention:	During concomitant use of NSAIDs and pemetrexed, in patients with renal impairment whose creatinine clearance ranges from 45 to 79 m.[min, monitor for myelosuppression, renal and GI toxicity. NSAIDs with short elimination half-lives (e.g., diclofenac, indomethacin) should be avoided for a period of two days before, the day of, and two days following administration of pemetrexed. In the absence of data regarding potential interaction between pemetrexed and NSAIDs with longer half- lives (e.g., meloxicam, nabumetone), patients taking these NSAIDs should interrupt dosing for at least five days before, the day of, and two days following pemetrexed administration.
Inhibitors of Cyto	chrome P450 2C9
Clinical Impact:	Diclofenac is metabolized predominantly by Cytochrome P-450 CYP2C9. Co-administration of medications that inhibit CYP2C9 may affect the pharmacokinetics of diclofenac [see Clinical Pharmacology (12.3)]
Intervention:	During concomitant use of diclofenac potassium and drugs that inhibit CYP2C9, an increase in the duration between diclofenac potassium doses for subsequent migraine attacks may be necessary.

benefits of breastfeeding should be considered along with the mother's clinical need for diclofenac potassium and any potential Figure 1: Percentage of Patients with Initial Headache Pain Freedom within 2 Hours tfed infant from diclofenac potassium or from the underlying maternal cond adverse effects on the breas

#### 8.3 Females and Males of Reproductive Potential Infertility

Based on the mechanism of action, the use of prostaglandin-mediated NSAIDs, including diclofenac potassium, may delay or prevent rupture of ovarian follicles, which has been associated with reversible infertitivity in some women. Published animal studies have showr that administration of prostaglandin synthesis inhibitors has the potential to disrupt prostaglandin-mediated follicular rupture required for ovulation. Small studies in women treated with NSAIDs have also shown a reversible delay in ovulation. Consider withdrawal of NSAIDs, including diclofenac potassium, in women who have difficulties conceiving or who are undergoing investigation of infertility

#### 8.4 Pediatric Use

Safety and effectiveness in pediatric patients have not been established

#### 8.5 Geriatric Use

Elderly patients, compared to younger patients, are at greater risk for NSAID-associated serious cardiovascular, gastrointestinal, adverse affects [see Warnings and Precautions (5.1, 5.2, 5.3, 5.6, 5.15]].

Clinical studies of diclofenac potassium did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects.

#### 8.6 Hepatic Impairment

Because hepatic metabolism accounts for almost 100% of diclofenac elimination, patients with hepatic impairment should be considered for treatment with diclofenac potassium only if the benefits outweigh the risks. There is insufficient information available to support dosing recommendations for diclofenac potassium in patients with hepatic insufficiency [see Clinical Pharmacology (12.3]].

### 8.7 Renal Impairment

No information is available from controlled clinical studies regarding the use of diclofenac potassium in patients with advanced renal Non-monitoring and a second se

#### 10 OVERDOSAGE

owing acute NSAID overdoses have been typically limited to lethargy, drowsiness, nausea, vomiting, and epigastric pain, which have been generally reversible with supportive care. Gastrointestinal bleeding has occurred. Hypertension, acute renal failure, respiratory depression and, coma have occurred, but were rare [see Warnings and Precautions (5.1, 5.2, 5.4, 5.6)].

Manage patients with symptomatic and supportive care following an NSAID overdosage. There are no specific antidotes. Consider emesis and/or activated charcoal (60 to 100 grams in adults, 1 to 2 grams per kg of body weight in pediatric patients) and/or osmotic cathartic in symptomatic patients seen within four hours of ingestion or in patients with a large overdosage (5 to 10 times the recommended dosage). Forced divresis, alkalinization of urine, hemodialysis, or hemoperfusion may not be useful due to high protein the useful due to high proteir

#### For additional information about overdosage treatment contact a poison control center (1-800-222-1222).

Anaphylactic reactions have been reported with the rapeutic ingestion of NSAIDs, and may occur following an overdose 11 DESCRIPTION

bindina.

Diclofenac potassium for oral solution is a nonsteroidal anti-inflammatory drug, available as a buffered soluble powder, designed to become potestiming to the solution a non-service and an entrinamentary rule, remain as a burreles solute pover, designed to be mixed with water prior to an administration. Dictorence potassium for oral solution is a white to off-white, buffered, flavored powder for oral solution packaged in individual unit dose packets.

The chemical name is potassium [o-(2,6-dichloroanilino) phenyl] acetate. The molecular weight is 334.24 g/mole. Its molecular formula is C., H., Cl.,NKO., and it has the following structure



The inactive ingredients in diclofenac potassium for oral solution include: flavoring agent (peppermint), glyceryl behenate, mannitol, sucralose and tribasic sodium phosphate anhydrous.

# 12 CLINICAL PHARMACOLOGY

 Instrument of Action

 Diclofenac potassium has analgesic, anti-inflammatory, and antipyretic properties.

The mechanism of action of diclofenac potassium, like that of other NSAIDs, is not completely understood but involves inhibition of cyclooxygenase (COX-1 and COX-2).

Diclofenac is a potent inhibitor of prostaglandin synthesis in vitro. Diclofenac concentrations reached during therapy have produced in vivo effects. Prostaglandins sensitize afferent nerves and potentiate the action of bradykinin in inducing pain in animal models. Prostaglandins are mediators of inflammation. Because diclofenac is an inhibitor of prostaglandin synthesis, its mode of action may be due to a decrease of prostaglandins in peripheral tissues.

#### 12.3 Pharmacokinetics

Absorption Diclofenac is 100% absorbed after oral administration compared to intravenous administration as measured by urine recovery. However, due to first-pass metabolism, only about 50% of the absorbed dose is systemically available. In fasting volunteers approximately 0.25 hour in fasting normal volunteers, with a range of 0.17 to 0.67 hours. High fat food had no significant effect on the extent of diclofenac absorption, but there was a reduction in peak plasma levels of approximately 70% after a high fat meal. Decreased  $\mathbf{C}_{\max}$  may be associated to decreased effectivenes

#### Distribution The apparent volume of distribution (V/F) of diclofenac potassium is 1.3 L/kg.

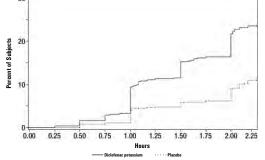
Diclofenac is more than 99% bound to human serum proteins, primarily to albumin. Serum protein binding is constant over the concentration range (0.15 to 105 mcg/mL) achieved with recomm nded doses

### Elimination

Metabolisn

Five diclofenac metabolites have been identified in human plasma and urine. The metabolites include 4'-hydroxy-, 5-hydroxy-, 3'-hydroxy- 4',5-dihydroxy- and 3'-hydroxy-4'-methoxy diclofenac. The major diclofenac metabolite, 4'-hydroxydiclofenac, has very weak pharmacologic activity. The formation of 4'-hydroxy diclofenac is primarily mediated by CPY2C9. Both diclofenac and its oxidative metabolites undergo glucuronidation or sulfation followed by biliary excretion. Acylglucuronidation mediated by UGT2B7 and oxidation mediated by CPY2C8 may also play a role in diclofenac metabolism. CYP3A4 is responsible for the formation of minor metabolites, 5-hydroxy and 3'-hydroxy-diclofenac. In patients with renal impairment, peak concentrations of metabolites 4'-hydroxy-and 5-hydroxydiclofenac were approximately 50% and 4% of the parent compound after single oral dosing compared to 27% and 1% in normal healthy subjects

Excretion



There was a decreased incidence of nausea, photophobia and phonophobia following administration of diclofenac potassium, compared to placebo. The efficacy and safety of diclofenac pota assium was unaffected by age or gender of the patient

### 16 HOW SUPPLIED/STORAGE AND HANDLING

Diclofenac potassium for oral solution 50 mg, is a white to off-white, buffered, flavored powder for oral solution, supplied as individual dose packets. Each individual packet is designed to deliver a dose of 50 mg diclofenac potassium when mixed in water. Boxes of nine (9) diclofenac potassium for oral solution Packets - NDC 31722-046-32

<u>Storage</u>

Store at 20° to 25°C (68° to 77°E): excursions permitted to 15° to 30°C (59° to 86°E) [See USP Controlled Boom Temperature]

# 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 diclofenac potassium for oral solution 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 health care provider immediately [see Warnings and Precautions (5.1)].

#### Gastrointestinal Bleeding, Ulceration, and Perforation

Gastionnestinal Journal, Uncertaint, or environment, and retronation Diclofenea potassium for or al solution, like other NSAIDs, can cause GI discomfort and more serious GI adverse events such as ulcers and bleeding, which may result in hospitalization and even death. Inform patients of the increased risk, and advise patients to report symptoms of ulcerations and bleeding, including epigastric pain, dyspepsia, melena, and hematemesis to their health care provider. Inform patients of the importance of follow-up in the setting of concomitant use of low-dose aspirin for cardiac prophylaxis [see Warnings and Precautions (5.2)].

#### Hepatotoxicity

Internationation Inform patients of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, pruritus, diarrhea, jaundice, right upper quadrant tenderness, and "flu-like" symptoms). If these occur, instruct patients to stop diclofenac potassium for oral solution and seek immediate medical therapy [see Warnings and Precautions (5.3]].

# Heart Failure and Edema

Advise patients to be alert for the symptoms of congestive heart failure including shortness of breath, unexplained weight gain, or edema and to contact their healthcare provider if such symptoms occur [see Warnings and Precautions (5.5/]. Anaphylactic Reactions

Inform patients of the signs of an anaphylactic reaction (e.g., difficulty breathing, swelling of the face or throat). Instruct patients to seek immediate emergency help if these occur [see Contraindications (4) and Warnings and Precautions (5.7)]. Serious Skin Reactions, Including DRESS

Advise patients to stop taking diclofenac potassium for oral solution immediately if they develop any type of rash, blisters, fever or other signs of hypersensitivity such as itching and to contact their healthcare provider as soon as possible. Diclofenac potassium for oral solution, like other NSAIDs, can cause serious skin reactions such as exfoliative dermatitis, Steven-Johnson syndrome (SJS), toxic osis (TEN), and DRESS, which may result in hospitalizations and even death [see Warnings and Precautions (5.9, 5.10]]. Medication Overuse Headache

Inform patients that use of acute migraine drugs for 10 or more days per month may lead to an exacerbation of headache and encourage patients to record headache frequency and drug use (e.g., by keeping a headache diary) [see Warnings and Precautions (5.11/]. Fetal Toxicity

nt women to avoid use of diclofenac potassium oral solution and other NSAIDs starting at 30 weeks gestation because of the risk of the premature closing of the fetal ductus arteriosus. If treatment with diclofenac potassium oral solution is needed for a pregnant woman between about 20 to 30 weeks gestation, advise her that she may need to be monitored for oligohydramnios, if ent continues for longer than 48 hours [see Warnings and Precautions (5.12) and Use in Specific Populations (8.1, Lactation

Advise patients to notify their healthcare provider if they are breastfeeding or plan to breastfeed [see Use in Specific Populations (8.2)]. Female Fertility

Advise females of reproductive potential who desire pregnancy that NSAIDs, including diclofenac potassium oral solution, may delay or prevent rupture of ovarian follicles, which has been associated with reversible infertility in some women [see Use in Specific Populations (8.3)].

#### Avoid Concomitant Use of NSAIDs

Inform patients that the concomitant use of diclofenac potassium for oral solution with other NSAIDs or salicylates (e.g., diflunisal, asslate is not recommended due to the increased risk of gastrointestinal toxicity, and itter or no increase in efficacy (see Warnings and Precautions (5.2) and Drug Interactions (7)]. Alert patients that NSAIDs may be present in "over the counter" medications for treatment of colds fever or insomnia

#### Use of NSAIDS and Low-Dose Aspirin

s not to use low-dose aspirin concomitantly with diclofenac potassium for oral solution until they talk to their Inform patients healthcare provider [see Drug Interactions (7)]



Manufactured for: Camber Pharmaceuticals, Inc.

Piscataway NJ 08854

e closure of the fetal ductus arterios Oligohydramnios/Neonatal Renal Impairmen

Premature Closure of Fetal Ductus Arteriosus

30 weeks of gestation and later in pregnancy (see Clinical Considerations, Data).

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

**Risk Summary** 

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

Use of NSAIDs, including diclofenac potassium, can cause premature closure of the fetal ductus arteriosus and fetal renal

dysfunction leading to oligohydramnios and, in some cases, neonatal renal impairment. Because of these risks, limit dose and duration of diclofenac potassium use between about 20 and 30 weeks of gestation, and avoid diclofenac potassium use at about

Use of NSAIDs, including diclofenac potassium, at about 30 weeks gestation or later in pregnancy increases the risk of

Data from observational studies regarding other potential embryofetal risks of NSAID use in women in the first or second trimesters of pregnancy are inconclusive. In animal studies, oral administration of diclofenac sodium to pregnant mice, rats, and rabbits resulted in adverse effects on development (embryofetal mortality, reduced fetal growth) at doses similar to those used clinically. Based on animal data, prostaglandins have been shown to have an important role in endometrial vascular permeability, blastocyst implantation, and decidualization. In animal studies, administration of prostaglandin synthesis inhibitors such as diclofenac impartation, and technication in annual stoles, annual annual of prostagiantim synthesis minutes access a uncorrence potassium, resulted in increased pre- and post-implantation loss. Prostagiandina silo have been shown to have an important role in fetal kidney development. In published animal studies, prostagiandin synthesis inhibitors have been reported to impair kidney development when administered at clinically relevant doses.

All pregnancies have a background risk of birth defects, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnances is 2 to 4% and 15 to 20%, respectively. The reported rate of major birth defects among deliveries to women with migraine ranged from 2.2% to 2.9% and the reported rate of miscarriage was 17%, which were similar to rates reported in women without migraine. **Clinical Considerations** 

se-Associated Maternal and/or Embryo/Fetal Risk

Several studies have suggested that women with migraine may be at increased risk of preeclampsia and gestational hypertension during pregnancy.

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 diclofenac potassium, can cause premature closure of the fetal ductus arteriosus (see Data).

Oligohydramnios/Neonatal Renal Impairment

If an NSAID is necessary at about 20 weeks cestation or later in pregnancy, limit the use to the lowest effective dose and shortest duration possible. If diclofenac potassium treatment extends beyond 48 hours, consider monitoring with ultrasound fo oligohydramnios, If oligohydramnios occurs, discontinue diclofenac potassium and follow up according to clinical practice (see Data). Labor or Delivery

The effects of diclofenac potassium on labor and delivery in pregnant women are unknown. In rat studies, maternal exposure to NSAIDs, as with other drugs known to inhibit prostaglandin synthesis, increased the incidence of dystocia, delayed parturition, and decreased pup survival.

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.

Oligohydramnios/Neonatal Renal Impairmer

Published studies and postmarketing reports describe maternal NSAID use at about 20 weeks gestation or later in pregnancy associated with fetal renal dysfunction leading to oligohydramnios, and in some cases, neonatal renal impairment. These adverse outcomes are seen, on average, after days to weeks of treatment, although oligohydramnios has been infrequently reported as soon as 48 hours after NSAID initiation. In many cases, but not all, the decrease in amniotic fluid was transient and reversible with cessation of the drug. There have been a limited number of case reports of maternal NSAID use and neonatal renal dysfunction without oligohydramnios, some of which were irreversible. Some cases of neonatal renal dysfunction required treatment with invasive procedures, such as exchange transfusion or dialysis.

Methodological limitations of these postmarketing studies and reports include lack of a control group; limited information regarding dose, duration, and timing of drug exposure; and concomitant use of other medications. These limitations preclude establishing a reliable estimate of the risk of adverse fetal and neonatal outcomes with maternal NSAID use. Because the published safety data or neonatal outcomes involved mostly preterm infants, the generalizability of certain reported risks to the full-term infant exposed to NSAIDs through maternal use is uncertain.

Animal Data

Oral administration of diclofenac sodium to pregnant mice and rabbits during organogenesis resulted in embryofetal toxicity at oral doses of up to 20 and 10 mg/kg/day (up to approximately 2 and 4 times, respectively, the recommended human dose [RHD] of 50 mg/day, based on body surface area [mg/m<sup>2</sup>]). In rats, oral administration of diclofenac at doses of up to 10 mg/kg/day (up to approximately 2 times the RHD on a mg/m<sup>2</sup> basis) during organogenesis resulted in increased embryofetal mortality and reduced fetal body weights.

8.2 Lactation

Risk Summary

Data from published literature reports with oral preparations of diclofenac indicate the presence of small amounts of diclofenac in human milk. There are no data on the effects on the breastfed infant, or the effects on milk production. The developmental and health Diclofenac is eliminated through metabolism and subsequent urinary and biliary excretion of the glucuronide and the sulfate conjugates of the metabolites. Little or no free unchanged diclofena; is excreted in the urine. Approximately 65% of the dose is excreted in the urine and approximately 35% in the bile as conjugates of unchanged diclofenac plus metabolites. Because renal elimination is not a significant pathway of elimination for unchanged diclofenac, dosing adjustment in patients with mild ion is not necessary. The terminal half-life of unchanged diclofenac is approximately 2 hours. to moderate renal dysfun

<u>Specific Populations</u> *Race:* There are no pharmacokinetic differences due to race.

Hepatic Impairment: The liver metabolizes almost 100% of diclofenac; there is insufficient information available to support dosing recommendations for diclofenac potassium in patients with hepatic insufficiency (see Warnings and Precautions (5.3) and Use in Specific Populations (8.6)].

Renal Impairment: In patients with renal impairment (inulin clearance 60 to 90, 30 to 60, and < 30 mL/min; N=6 in each group), AUC values and elimination rate were comparable to those in healthy subjects (see Warnings and Precautions (5.6) and Use in Specific Populations (8.7)].

Drug Interaction Studies

Aspirin: When NSAIDs were administered with aspirin the protein binding of NSAIDs were reduced, although the clearance of free NSAID was not altered. The clinical significance of this interaction is not known. See Table 2 for clinically significant drug interactions of NSAIDs with aspirin [see Drug Interactions (7/]. 13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, and Impairment of Fertility

Carcinogenesis

ong term carcinogenicity studies in rats given diclofenac sodium up to 2 mg/kg/day (less than the recommended human dose [RHD] of 50 mg/day on a body surface area [mg/m<sup>2</sup>] basis) have revealed no significant increases in tumor incidence. There was a slight increase in benign mammary fibroadenomas in mid-dose treated (0.5 mg/kg/day or 3 mg/m²/day) female rats (high-dose females had excessive mortality), but the increase was not significant for this common rat tumor. A 2-year carcinogenicity study conducted in mice employing diclofenac sodium at doses up to 0.3 mg/kg/day (less than the RHD on a mg/m² basis) in males and 1 m/kg/day (less than the RHD on a mg/m<sup>2</sup> basis) in females did not reveal any oncogenic potential

<u>Mutagenesis</u>

Diclofenac sodium was not genotoxic in *in vitro* (reverse mutation in bacteria [Ames], mouse lymphoma tk) or in *in vivo* (including dominant lethal and male germinal epithelial chromosomal aberration in Chinese hamster) assays.

Impairment of Fertility Diclofenac sodium administered to male and female rats at 4 mg/kg/day (less than the RHD on a mg/m²basis) did not affect fertility.

14 CLINICAL STUDIES The efficacy of diclofenac potassium in the acute treatment of migraine headache was demonstrated in two randomized, double blind, placebo-controlled trials.

Patients enrolled in these two trials were predominantly female (85%) and white (86%), with a mean age of 40 years (range: 18 to 65). Patients were instructed to treat a migraine of moderate to severe pain with 1 dose of study medication. Patients evaluated their headache pain 2 hours later. Associated symptoms of nausea, photophobia, and phonophobia were also evaluated. In addition the proportion of patients who were "sustained pain free", defined as a reduction in headache severity from moderate or severe pair to no pain at 2 hours post-dose without a return of mild, moderate, or severe pain and no use of rescue medication for 24 hours post dose, was also evaluated. In these studies, the percentage of patients achieving pain freedom 2 hours after treatment and sustained pain freedom from 2 to 24 hours post-dose was significantly greater in patients who received diclofenac potassium compared with those who received placebo (see Table 3). The percentage of patients achieving pain relief 2 hours after treatment (defined as a reduction in headache severity from moderate or severe pain to mild or no pain) was also significantly greater in patients who received diclofenac potassium compared with those who received placebo (see Table 3).

Table 3: Percentage of Patients with 2-Hour Pain Freedom, Sustained Pain Freedom 2 to 24 Hours, and 2-Hour Pain Relief

Study 1	Diclofenac potassium (n=265)	Placebo (n=257)
2-Hour Pain Free	24%	13%
2-24h Sustained Pain Free	22%	10%
2-Hour Pain Relief	48%	27%
Study 2	Diclofenac potassium (n=343)	Placebo (n=347)
2-Hour Pain Free	25%	10%
2-24h Sustained Pain Free	19%	7%
2-Hour Pain Relief	65%	41%

shown in Figure 1.

\_\_\_\_\_ Manufactured for: Camber Pharmaceu Medicines See For By: Annora Pharma Pvt. Ltd. Sangareddy - 502313, Tell your healthcare provider about all of the medicines you take, including prescription or o supplements. NSAIDs, like diclofenac potassium for oral solution, and some other medicines can interact notstart taking any new medicine without talking to your healthcare provider first. Telangana, India Other information about NSAIDs Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088 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 NSAIC Get emergency help right away if you get any of the following symptoms:
shortness of breath or trouble breathing Diclofenac potassium for oral solution can cause serious side effects, including: Medication Guide Medicines are sometimes prescribed for purposes other than those listed in a Me prescribed. Do not give NSAIDs to other people, even if they have the same symptoms General information about the safe and effective use of NSAIDs What are the possible side effects of diclofenac potassium for oral solution? Especially tell your doctor if you take: This Medication Guide has been approved by the U.S. Piscataway, NJ 08854. NSAIDs that is written for health professionals (now the medicines you take. Keep a list of your medicines and show it to your doctor and pharmacist you would like more information about NSAIDs, talk with your healthcare provider. AMBER Stop taking diclofenac potassium for oral solution and call your healthcare provider right away if you get any of
 nausea that seems out of proportion to your migraine
 sudden or severe pain in your belly
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 more tired or weaker than usual Other side effects of NS AIDs include: stomach pain, constipation, diarrhea, gas, heartburn, nausea, vomiting, and dizziness. more information, "What is the most important information I should know about diclofenac potassium for oral solution?" • new or worse high blood pressure your skin or eyes look yellov indigestion or stomach pain itching low red blood cells (anemia) life-threatening skin reactions life-threatening allergic reactions asthma attacks in people who have asthma medication overuse headaches. Some people who use too much diclofenac potassium for oral solution may have worse l weakness in one part or side of your body kidney problems including kidney failure aspirin any anticoagulant medicines (warfarin, Coumadin, Jantoven) Some NSAIDs are solo for more than 10 days. cause ulcers in the stomach and intestines chest pain bleeding and ulcers in the stomach liver problems including liver failure heart failure Aspirin is an NSAID but it does not increase the chance of a heart attack. Aspirin can cause bleeding in the brain, stomach, sche). If your headaches get worse, your available at http://camberpharma.com/medication-guides uticals, Inc call 1-866-495-1995 look yellow sold in lower r doses and intestine without a prescription (over-the healthcare provide Food and Drug Administration. than those listed in a Medication may / decide counter). Talk to your healthcare provider • • ٠ đ . You dication Guide. Do not use NSA that you have. It may harm them slurred speech swelling of the face or throat flu-like symptoms swelling of the arms, legs, skin rash or blisters with fever stop your treatment with dic can ask your when pharmacist or healthcare p r **over-the-counter** act with each other a you get a new ) NSAIDs hands

By: Annora Pharma Pyt, Ltd. Sangareddy · 502313, Telangana, India. Revised: 01/2025

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