Diclofenac Sodium Topical Gel 1%

HIGHLIGHTS OF PRESCRIBING

These highlights do not include all the information needed to use DICLOFENAC SODIUM TOPICAL GEL safely and effectively. See DICLOFENAC SODIUM TOPICAL GEL. DICLOFENAC SODIUM topical gel, 1%, for topical use only Initial U.S. Approval: 1988

WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS See full prescribing information for

complete boxed warning. Nonsteroidal anti-inflammatory drugs (NSAIDs) cause an increased risk of serious cardiovascular myocardial infarction and stroke, which can be fatal. This risk may occur early in treatment and may increase with duration of use (5.1)is contraindicated in the setting of coronary artery bypass graft (CABG) surgery. (4, 5.1)

 NSAIDs cause an increased risk of serious gastrointestinal pleeding, ulceration, and perforation of the stomach or These events can occur at any time during use and without Most common adverse reactions Total dose should not exceed 32 g per day, over all affected joints. 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)

To report SUSPECTED ADVERSE ----- INDICATIONS AND USAGE ----- REACTIONS, contact Cipla Limited at

• Do not apply external heat and/or occlusive dressings to treated joints. Diclofenac sodium is a non-steroidal 1-866-604-3268 or FDA anti-inflammatory drug indicated for at 1-800-FDA-1088 or the relief of the pain of osteoarthritis www.fda.gov/medwatch. of joints amenable to topical treatment, such as the knees and those of the

 Diclofenac sodium was not evaluated for use on joints of the spine, hip, or shoulder. (14.1)

shortest duration consistent with

 Lower extremities: Apply the gel daily. Do not apply more than 16 g daily to any one affected joint of the lower extremities. (2.2)

 Upper extremities: Apply the gel upper extremities. (2.3)

• Total dose should not exceed 32 g per day, over all affected joints, (2.3) diclofenac sodium topical gel should be measured onto the enclosed dosing card to the appropriate 2 g or • <u>Diuretics</u>: NSAIDs can reduce

--- DOSAGE FORM AND STRENGTH ---

• Known hypersensitivity to diclofenac diclofenac sodium topical gel can

• History of asthma, urticaria, or other serum digoxin levels (7)

• Hepatotoxicity: Inform patients fetal ductus arteriosus. Avoid use of of hepatotoxicity. Discontinue if 30 weeks gestation (5.10, 8.1) or if clinical signs and symptoms of with reversible infertility. Consider

• <u>Hypertension</u>: Patients taking some gel in women who have difficulties antihypertensive medications may conceiving. (8.3) have impaired response to these See 17 for PATIENT COUNSELING therapies when taking NSAIDs. INFORMATION and Medication Guide. Monitor blood pressure (5.4, 7) • Heart Failure and Edema: Avoid use of diclofenac sodium topical gel in

FULL PRESCRIBING INFORMATION: CONTENTS* WARNING: RISK OF SERIOUS CARDIOVASCULAR

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5.9 Serious Skin Reactions Arteriosus 5.11 Hematologic Toxicity 5.12 Masking of Inflammation and Fever .13 Laboratory Monitoring

patients with severe heart failure Full prescribing information unless benefits are expected to outweigh risk of worsening heart

 Renal Toxicity: Monitor renal function in patients with renal or hepatic impairment, heart failure. dehydration, or hypovolemia. Avoid use of diclofenac sodium topical gel in patients with advanced renal disease unless benefits are expected to outweigh risk of worsening renal

Anaphylactic Reactions: Seek emergency help if an anaphylactic reaction occurs (5.7)

• Exacerbation of Asthma Related • Diclofenac sodium topical gel has not been evaluated for use on the spine, hip, or shoulder. to Aspirin Sensitivity: Diclofenac 2 dosage and administration sodium topical gel is contraindicated Use the lowest effective dosage for the shortest duration consistent with individual patient treatment goals in patients with aspirin-sensitive asthma. Monitor patients with 2.1 Dosing Card (See the patient Instructions for Use preexisting asthma (without aspirin sensitivity) (5.8)

Serious Skin Reactions: Discontinue Premature Closure of Fetal Ductus should wait at least one (1) hour to wash their hands.

gestation. (5.10, 8.1) (GI) adverse events including • Hematologic Toxicity: Monitor

hemoglobin or hematocrit in patients

with any signs or symptoms of anemia (5.11, 7)

2.3 Opper extremines including the ladius, wrist, or elbow 4 times daily. Diclofenac sodium topical gel should be gently massaged into the skin ensuring application to the entire affected hand, wrist, or elbow. The for heart failure, and death. ----- ADVERSE REACTIONS -----

(incidence > 2% of patients treated with diclofenac sodium and greater than placebo) are application site reactions,

----- DRUG INTERACTIONS -----Drugs that Interfere with Hemostasis

(e.g. warfarin, aspirin, SSRIs/SNRIs) Monitor patients for bleeding who are concomitantly using diclofenac sodium topical gel with drugs that interfere with hemostasis Use the lowest effective dosage for Concomitant use of diclofenac sodium topical gel and analgesic individual patient treatment goals (2.1) doses of aspirin is not generally

recommended (7) (4 g) to the affected area 4 times • ACE Inhibitors, Angiotensin Receptor Blockers (ARB), or Beta-Blockers: Concomitant use with diclofena sodium topical gel may diminish

the antihypertensive effect of these (2 g) to the affected area 4 times drugs. Monitor blood pressure (7) daily. Do not apply more than 8 g • ACE Inhibitors and ARBs: Concomitant use with diclofenac sodium topical gel in elderly, volume depleted, or those

high risk patients, monitor for signs of worsening renal function (7) atriuretic effect of furosemide and

------ CONTRAINDICATIONS -----
• Digoxin: Concomitant use with Status Post Coronary Artery Bypass Graft (CABG) Surgery

The large controlled clinical triple of a COV-2 selection M. prolong half-life of digoxin. Monitor Post-MI Patients

--- WARNINGS AND PRECAUTIONS --- the risk of premature closure of the years of follow-up. Avoid the use of diclofenac sodium topical gel in patients with a recent MI unless the benefits are expected of warning signs and symptoms NSAIDs in pregnant women starting at

5.16 Oral Nonsteroidal Anti-inflammatory Drugs

6 ADVERSE REACTIONS

7 DRUG INTERACTIONS

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12 CLINICAL PHARMACOLOGY

12.3 Pharmacokinetics

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14.1 Pivotal Studies in Osteoarthritis of the

Superficial Joints of the Extremities

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

abnormal liver tests persist or worsen Infertility: NSAIDs are associated 5.2 Gastrointestinal Bleeding, Ulceration, and Perforation withdrawal of diclofenac sodium topical

in approximately 1% of patients treated for 3-6 months, and in about 2%-4% of patients treated for one periodically [see Warnings and Precautions (5.2, 5.3, 5.6)]. year. However, even short-term NSAID therapy is not without risk. Risk Factors for GI Bleeding, Ulceration, and Perforation Revised: 10/2020

Other factors that increase the risk of GI bleeding in patients treated with NSAIDs include longer duration of NSAID therapy; concomitant use of oral corticosteroids, aspirin, anticoagulants, or selective serotonin 5.15 Eye Exposure

WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS

[see Contraindications (4) and Warnings and Precautions (5.1)].

Gastrointestinal Bleeding, Ulceration, and Perforation

The dosing card can be found attached to the inside of the carton.

2.3 Upper extremities including the hands, wrists, or elbows

Do not apply diclofenac sodium topical gel to open wounds.

Diclofenac sodium is contraindicated in the following patients:

conduct periodic laboratory evaluations.

3 DOSAGE FORM AND STRENGTH

5 WARNINGS AND PRECAUTIONS

5.1 Cardiovascular Thrombotic Events

Avoid exposure of the treated joint(s) to natural or artificial sunlight

Avoid contact of diclofenac sodium topical gel with eyes and mucous membranes.

components of the drug product [see Warnings and Precautions (5.7, 5.9)]

in CV thrombotic risk has been observed most consistently at higher doses.

entire hand includes the palm, back of the hands, and the fingers. Do not apply more than 8 g daily to any

for treatment; inform patient not to wash the treated hand(s) for at least 1 hour after the application.

products, including sunscreens, cosmetics, lotions, moisturizers, insect repellants, or other topical

• Concomitant use of diclofenac sodium topical gel with oral non-steroidal anti-inflammatory drugs

Avoid wearing of clothing or gloves for at least 10 minutes after applying diclofenac sodium topical gel.

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

(NSAIDs) has not been evaluated, and may increase adverse NSAIDs effects. Do not use combination therapy with diclofenac sodium topical gel and an oral NSAID unless the benefit outweighs the risk and

[see Warnings and Precautions (5.2)].

[see Warnings and Precautions (5)].

2.4 Special Precaution

Cardiovascular Thrombotic Events

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

diclofenac sodium topical gel until a serious GI adverse event is ruled out.

bleeding. For such patients, as well as those with active GI bleeding, consider alternate therapies other

6 ADVERSE REACTIONS Remain alert for signs and symptoms of GI ulceration and bleeding during NSAID therapy. If a serious GI adverse event is suspected, promptly initiate evaluation and treatment, and discontinue

 Cardiovascular Thrombotic Events [see Warnings and Precautions (5.1)]

• In the setting of concomitant use of low-dose aspirin for cardiac prophylaxis, monitor patients more • Hepatotoxicity [see Warnings and Precautions (5.3)] closely for evidence of GI bleeding [see Drug Interactions (7)]. 5.3 Hepatotoxicity

al trials, of oral diclofenac-containing products, meaningful elevations (i.e., more than 3 times the

• Renal Toxicity and Hyperkalemia [see Warnings and Precautions (5.6)] ULN) of AST (SGOT) were observed in about 2% of approximately 5,700 patients at some time during

Anaphylactic Reactions [see Warnings and Precautions (5.7)] diclofenac treatment (ALT was not measured in all studies).

 Serious Skin Reactions [see Warnings and Precautions (5.9)]
 Hematologic Toxicity [see Warnings and Precautions (5.11)]
 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 with rates in the clinical trials of another drug and reconducted to the condition of the clinical trials of another drug and reconditions and reconditions. study, a figher incidence of pot defined (less than 3 times the ULN), inductate (3-5 times tim

in some cases, the first 2 months of therapy, but can occur at any time during treatment with diclofena Nonsteroidal anti-inflammatory drugs (NSAIDs) cause an increased risk of serious cardiovascular thrombotic events, including myocardial infarction and stroke, which can be fatal. This risk may jundice, fullminant hepatities with and without jaundice, and liver failure. Some of these reported cases resulted in fatalities or liver transplantation occur early in treatment and may increase with duration of use [see Warnings and Precautions

Dictofenac sodium is contraindicated in the setting of coronary artery bypass graft (CABG) surgery drug-induced liver injury with current use compared with non-use of dictofenac were associated with a statistically significant 4-fold adjusted odds ratio of liver injury. In this particular study, based on an overall number of 10 cases of liver injury associated with diclofenac, the adjusted odds ratio increased further with 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 female gender, doses of 150 mg or more, and duration of use for more than 90 days.

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 prior history of peptic ulcer disease and/or GI bleeding are at greater risk for serious GI events distinguishing symptoms. The optimum times for making the first and subsequent transaminase should be monitored within 4 to 8 weeks after initiating treatment with diclofenac. However, severe hepatic reactions can occur at any time during treatment with diclofenac.

Diclofenac sodium topical gel is indicated for the relief of the pain of osteoarthritis of joints amenable to topical treatment, such as the knees and those of the hands.

If abnormal liver tests persist or worsen, if clinical signs and/or symptoms consistent with liver disease develor or if systemic manifestations occur (e.g., exispedible rash, addingle rash, adding rash, addingle rash, adding rash, develop, or if systemic manifestations occur (e.g., eosinophilia, rash, abdominal pain, diarrhea, dark urine, etc.), diclofenac sodium topical gel should be discontinued immediately.

diarrhea, pruritus, jaundice, right upper quadrant tenderness, and "flu-like" symptoms). If clinical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophilia, rash, etc.), discontinue diclofenac sodium topical gel immediately, and perform a clinical evaluation of the patient.

The proper amount of diclofenac sodium topical gel should be measured using the dosing card supplied in the drug product carton. The dosing card is made of clear polypropylene. The dosing card should be used for each application of drug product. The gel should be applied within the rectangular area of the gold should be applied within the for each application of drug product. The gel should be applied within the rectangular area of the dosing when prescribing diclofenac sodium topical gel with concomitant drugs that are known to be potentially

angiotensin converting enzyme (ACE) inhibitors, thiazide diuretics, or loop diuretics may have impaired Arteriosus: Avoid use in pregnant women starting at estation. (5.10, 8.1)

2.2 Lower extremities, including the feet, ankles, or knees

2.2 Lower extremities, including the feet, ankles, or knees

Apply the gel (4 g) to the affected foot, ankle, or knee 4 times daily. Diclofenac sodium topical gel should be gently massaged into the skin ensuring application to the entire affected foot, or knee or ankle. The dependence of the foot and the task point and throughout the course of therapy.

5.5 Heart Failure and Edema

2.2 Lower extremities, including the feet, ankles, or knees

Amply the gel (4 g) to the affected foot, or knee or ankle. The dependence of the foot and the task point and throughout the course of the foot and the task. The dependence of the foot and the task point and throughout the course of the foot and the task.

5.5 Heart Failure and Edema

entire foot includes the sole, top of the foot and the toes. Do not apply more than 16 g daily to any single The Coxib and traditional NSAID Trialists' Collaboration meta-analysis of randomized controlled trials eated patients and nonselective NSAID-treated patients compared to placebo-treated patients. In a Danish National Registry study of patients with heart failure, NSAID use increased the risk of MI, hospitalization

> Additionally, fluid retention and edema have been observed in some patients 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 showering/bathing for at least 1 hour after the application. Inform patient to wash his/her hands after use, unless the hands are the treated joint. If diclofenac sodium topical gel is applied to the hand(s) for statement; inform patient to wash the treated hand(s) for statement; inform patient to the vash the treated hand(s) for statement; inform patient to the vash the treated hand(s) for statement; inform patient to the vash the treated hand(s). 5.6 Renal Toxicity and Hyperkalemia

Renal Toxicity $\begin{tabular}{ll} Long-term \begin{tabular}{ll} \hline administration of NSAIDs has resulted in renal papillary necrosis and other renal injury. \\ \end{tabular}$

 Avoid concomitant use of diclofenac sodium topical gel on the treated skin site with other topical 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 ACEthe pretreatment state. No information is available from controlled clinical studies regarding the use of diclofenac sodium topical

gel in patients with advanced renal disease. The renal effects of diclofenac sodium may hasten the progression of renal dysfunction in patients with preexisting renal disease Correct volume status in dehydrated or hypovolemic patients prior to initiating diclofenac sodium topical gel. Monitor renal function in patients with renal or hepatic impairment, heart failure, dehydration, or hypovolemia during use of diclofenac sodium topical gel [*see Drug Interactions (7*)]. Avoid the use of Diclofenac sodium is contraindicated in the following patients:

• Known hypersensitivity (e.g., anaphylactic reactions and serious skin reactions) to diclofenac or any components of the drug product Lee Warrings and Preguiting (5.7.5.0).

advanced renal disease, monitor patients for signs of worsening renal function. 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)]

Hyperkalemia 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

NSAIDs, even in some patients without renal impairment. In patients with normal renal function, these Diclofenac has been associated with anaphylactic reactions in patients with and without known

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) Warnings and Precautions (5.8)]. and stroke, which can be fatal. Based on available data, it is unclear that the risk for CV thrombotic events

Seek emergency help if an anaphylactic reaction occurs 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.

in elderly, volume depleted, or those with renal impairment may result in deterioration of renal function. In such in such aspirin-sensitive patients, diclofenac sodium topical gel is contraindicated in patients with this form

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 of asthma. 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.

5.9 Serious Skin Reactions thiazide diuretics. Monitor patients
There is no consistent evidence that concurrent use of aspirin mitigates the increased risk of serious

NSAIDs, including diclofenac, can cause serious skin adverse reactions such as exfoliative dermatitis

Stevens-Inhonor syndromy (SIS) and toxic exidence that concurrent use of aspirin mitigates the increased risk of serious

NSAIDs, including diclofenac, can cause serious skin adverse reactions such as exfoliative dermatitis

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NSAIDs, including diclofenac, can cause serious skin adverse reactions such as exfoliative dermatitis

There is no consistent evidence that concurrent use of aspirin mitigates the increased risk of serious to assure diuretics efficacy including antihynertensive effects (7)

There is no consistent evidence that concurrent use of aspirin integrates are integrated in approximately approximately associated with NSAID use. The concurrent use of aspirin and an NSAID, such as diclofenac, increases the risk of serious gastrointestinal (GI) events [see Warnings and Precautions (5.2)].

Stevens-Johnson syndrome (5.5), and toxic epiderinal nectorists (1.10), which can be failed. The concurrent use of aspirin integrates are increased in a syndrome (5.5), and toxic epiderinal nectorists (1.10), which can be failed. The concurrent use of aspirin and an NSAID, such as diclofenac, increases the risk of serious gastrointestinal (GI) events [see Warnings and Precautions (5.2)].

any other sign of hypersensitivity. Diclofenac sodium topical gel is contraindicated in patients with previous Two large, controlled clinical trials of a COX-2 selective NSAID for the treatment of pain in the first 10-14 days following CABG surgery found an increased incidence of myocardial infarction and stroke. NSAIDs are

5.10 Premature Closure of Fetal Ductus Arteriosus

Diclofenac may cause premature closure of the fetal ductus arteriosus. Avoid use of NSAIDs, including iclofenac sodium, in pregnant women starting at 30 weeks of gestation (third trimester) [see Use in are breastfeeding or plan to breast feed. Observational studies conducted in the Danish National Registry have demonstrated that patients treated Specific Populations (8.1)]

allergic-type reactions after taking aspirin or other NSAIDs. (4)

In the setting of CABG surgery. (4)

--- WARNINGS AND PRECAUTIONS --
WARNINGS AND PRECA NSAIDs, including diclofenac sodium, may increase the risk of bleeding events. Co-morbid conditions such as coagulation disorders, concomitant use of warfarin, other anticoagulants, antiplatelet agents (e.g.,

aspirin), serotonin reuptake iniliulitors (55His) and serotonin increase this risk. Monitor these patients for signs of bleeding [see Drug Interactions (7)]. aspirin), serotonin reuptake inhibitors (SSRIs) and serotonin norepinephrine reuptake inhibitors (SNRIs) 5.12 Masking of Inflammation and Fever

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

5.14 Sun Exposure Patients should minimize or avoid exposure to natural or artificial sunlight on treated areas because studies

Patients with a prior history of peptic ulcer disease and/or GI bleeding who used NSAIDs had a greater than 10-fold increased risk for developing a GI bleed compared to patients without these risk factors.

In animals indicated topical diclofenac treatment resulted in an earlier onset of ultraviolet light induced skin tumors. The potential effects of diclofenac sodium topical gel on skin response to ultraviolet damage in heart failure

reuptake inhibitors (SSRIs); smoking; use of alcohol; older age; and poor general health status. Most postmarketing reports of fatal GI events occurred in elderly or debilitated patients. Additionally, patients with advanced liver disease and/or coagulopathy are at increased risk for GI bleeding.

Index Patients should be avoided.
Patients should be advised that if eye contact occurs, they should immediately wash out the eye with water or saline and consult a physician if irritation persists for more than an hour.

Index Patients

* or saline and consult a physician if irritation persists for more than an hour.

5.16 Oral Nonsteroidal Anti-Inflammatory Drugs Concomitant use of oral and topical NSAIDs may result in a higher rate of hemorrhage, more frequent

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

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

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

Serious Skin Reactions [see Warnings and Precautions (5.9)

patients with osteoarthritis than in those with rheumatoid arthritis.

Almost all meaningful elevations in transaminases were detected before patients became symptomatic.

Abnormal tests occurred during the first 2 months of therapy with diclofenac in 42 of the 51 patients in all

Medication Guide for Nonsteroidal Anti-inflammatory

Drugs (NSAIDs) What is the most important information I should know • nausea 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

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)."

your healthcare provider tells you to. You may have an provider or get medical help right away. increased risk of another heart attack if you take NSAIDs These are not all the possible side effects of NSAIDs. after a recent heart attack.

• Increased risk of bleeding, ulcers, and tears pharmacist about NSAIDs. (perforation) of the esophagus (tube leading from the Call your doctor for medical advice about side effects. You mouth to the stomach), stomach and intestines:

 anytime during use without warning symptoms

 that may cause death The risk of getting an ulcer or bleeding increases with:

o past history of stomach ulcers, or stomach or intestinal bleeding with use of NSAIDs

o taking medicines called "anticoagulants", "SSRIs", or "SNRIs"

 increasing doses of NSAIDs longer use of NSAIDs

smoking drinking alcohol

 older age poor health o advanced liver disease

bleeding problems NSAIDs should only be used:

 exactly as prescribed o at the lowest dose possible for your treatment

o for the shortest time needed What are NSAIDs?

NSAIDs are used to treat pain and redness, swelling, and Cipla Ltd., Verna Goa, India heat (inflammation) from medical conditions such as different types of arthritis, menstrual cramps, and other

types of short-term pain. Who should not take NSAIDs?

This Medication Guide has been approved by the U.S. Food and Drug Administration • if you have had an asthma attack, hives, or other allergic reaction with aspirin or any 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 asthma are pregnant or plan to become pregnant. Talk to your healthcare provider if you are considering taking NSAIDs

weeks of pregnancy.

Tell your healthcare provider about all of the medicines vou take, including prescription or over-the-counter medicines, vitamins or herbal supplements. NSAIDs and some other medicines can interact with each other and cause serious side effects. Do not start taking any new

during pregnancy. You should not take NSAIDs after 29

medicine without talking to your healthcare provider first. What are the possible side effects of NSAIDs? NSAIDs can cause serious side effects, including: See "What is the most important information I should know about medicines called Nonsteroidal Anti-inflammatory

Drugs (NSAIDs)?" new or worse high blood pressure

liver problems including liver failure

life-threatening skin reactions

 life-threatening allergic reactions Other side effects of NSAIDs include: stomach pain, constipation, diarrhea, gas, heartburn, nausea, vomiting, and dizziness.

Get emergency help right away if you get any of the following symptoms:

shortness of breath or trouble breathing

chest pain

 weakness in one part or side of your body slurred speech

swelling of the face or throat

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

 more tired or weaker
 there is blood in your bowel movement or it is black and sticky like tar

 unusual weight gain • your skin or eyes look • skin rash or blisters with

• indigestion or stomach • swelling of the arms, legs, hands, and feet

Avoid taking NSAIDs after a recent heart attack, unless If you take too much of your NSAID, call your healthcare

For more information, ask your healthcare provider or

may report side effects to FDA at 1-800-FDA-1088.

Other information about NSAIDs

• Aspirin is an NSAID but it does not increase the chance of a heart attack. Aspirin can cause bleeding in the brain, stomach, and intestines. Aspirin can also cause ulcers in the stomach and intestines.

• Some NSAIDs are sold in lower doses without a prescription (over-the-counter). Talk to your healthcare provider before using over-the-counter NSAIDs for more than 10 days.

General information about the safe and effective use of

Medicines are sometimes prescribed for purposes other than those listed in a Medication 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 harm them.

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. Manufactured by:

Manufactured for: Cipla USA, Inc. 10 Independence Boulevard, Suite 300

> SAP Code: 21080582 (Ver.01) Pack insert size: 560x400 mm (folded size: 120x40 mm) Pharmacode: 21_std

Date: 28/10/2020

Diclofenac Sodium Topical Gel, 1%

Important: Use the dosing card that is inside the diclofenac sodium topical gel carton to correctly measure each dose. The dosing card is re-usable. Do not throw the dosing card away. Before you use diclofenac sodium topical gel for the first time, your healthcare provider or pharmacist should dosing card.

diclofenac sodium topical gel and each time you get a refill.

diclofenac sodium topical gel. Ask your healthcare provider There may be new information. This information does not take or pharmacist if you are not sure how to correctly measure the place of talking to your healthcare provider about your your dose of diclofenac sodium topical gel. medical condition or your treatment.

topical gel to help relieve arthritis pain in some of your joints.

Diclofenac sodium topical gel may be used to treat arthritis

Do not share your dosing card with another person. Make pain in the arms (hands, wrists, and elbows) and in the legs (feet, ankles, and knees). It is not known if diclofenac sodium topical gal is safe and effective if used on your spine, hips or topical gel is safe and effective if used on your spine, hips, or hand, the top of your hand, and your fingers.

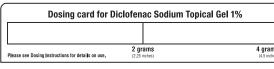
- your healthcare provider tells you to.
- healthcare provider, it should not be more than 32 grams clothing. in one day.

The dose for your hands, wrists, or elbows is 2 grams of feet, ankles, or knees: diclofenac sodium topical gel each time you apply it. Step 1. Refer to Step 1 above.

of 16 grams each day). Do not apply more than 16 grams your dose of diclofenac sodium topical gel. each day to any one of your affected feet, ankles, or knees.

Step 3. Apply diclofenac sodium topical gel to your foot,

- hand, 4 times a day, your total dose for one day is 8 grams. With another person. Make sure to cover your entire foot, • If you use 4 grams of diclofenac sodium topical gel on one ankle, or knee area with the gel. For example, cover the skin
- Your total dose for one day, treating one hand and one that the foot includes the sole of your foot, the top of your knee, is 8 grams plus 16 grams, which equals 24 grams of foot, and your toes. diclofenac sodium topical gel.



- for the first time, open the foil seal that covers the tube applying diclofenac sodium topical gel to your foot, ankle, opening by using the spiked top of the cap. Remember to or knee. dose (see Figure A).
- Apply diclofenac sodium topical gel to clean, dry skin that Active ingredient: diclofenac sodium, USP does not have any cuts, open wounds, infections, or rashes. Inactive ingredients: carbomer homopolymer Type C,
- have applied diclofenac sodium topical gel. have applied diclotenac sodium topical gel.
 Avoid exposing skin where you apply diclofenac sodium water, and strong ammonia solution. topical gel to sunlight and artificial light, such as tanning
- Do not use sunscreens, cosmetics, lotions, moisturizers, insect repellants, or other topical medicines on the same skin areas where you have applied diclofenac sodium

 • Do not freeze diclofenac sodium topical gel.
- topical gel. Do not get diclofenac sodium topical gel in your eyes, nose, or mouth. Diclofenac sodium topical gel is only to be used Keep diclofenac sodium topical gel, the dosing card, and on your skin (topical use). If you get diclofenac sodium all medicines out of the reach of children. water or saline. Talk with your healthcare provider if eye approved by the U.S. Food and Drug Administration. irritation lasts for more than one hour.

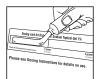
What if I miss a dose?

• If you miss a dose of diclofenac sodium topical gel, continue

10 Independence Boulevard, Suite 300 with your next scheduled dose using the prescribed amount Warren, NJ 07059 of diclofenac sodium topical gel. **Do not double the dose.**

Applying 2 grams (2 g) of diclofenac sodium topical gel to hands, wrists, or elbows:

Step 1. Remove the dosing card that is attached inside the diclofenac sodium topical gel carton. Use the dosing card to correctly measure each dose of diclofenac sodium topical gel. To measure the correct amount of diclofenac sodium topical gel, place the dosing card on a flat surface so that you can read the print. If the print is backwards, flip dosing card over (see Figure A). If you lose or misplace your dosing card, you can ask your pharmacist for a new one or call 1-866-604-3268. Ask your healthcare provider or pharmacist to show you how to correctly measure your dose of diclofenac sodium topical gel while you are waiting to receive your new dosing card.







show you how to correctly measure your dose using the Step 2. Squeeze diclofenac sodium topical gel onto the dosing card evenly, up to the 2 g line (a 2.25 inch length Read this Instructions for Use before you start using dosing card (see Figure B). Put the cap back on the tube of of gel). Make sure that the gel covers the 2 g area of the

Your healthcare provider has prescribed diclofenac sodium topical gel to help relieve arthritis pain in some of your joints.

Step 3. Apply the gel to your hand, wrist, or elbow. You can use the dosing card to apply the gel (see Figure C). Then, use

• Use diclofenac sodium topical gel exactly how your healthcare provider prescribes it for you. Do not apply dislofenac acidium topical gel exactly how your healthcare provider prescribes it for you. Do not apply dislofenace acidium topical gel exactly how your since and dry. Store the dosing card, hold end with fingertips, rinse and dry. Store the dosing card until next use. Do not diclofenac sodium topical gel anywhere other than where shower or bathe for at least 1 hour after applying diclofenac sodium topical gel. Do not wash your treated hands for at • Do not use more than a total of 32 grams of diclofenac least 1 hour after applying the diclofenac sodium topical gel. sodium topical gel each day. If you add up the amount Step 5. After applying diclofenac sodium topical gel, wait of diclofenac sodium topical gel as directed by your 10 minutes before covering the treated skin with gloves or

Applying 4 grams (4 g) of diclofenac sodium topical gel to

• Apply diclofenac sodium topical gel 4 times a day (a total of 8 grams each day). Do not apply more than 8 grams each day to any one of your affected hands, wrists, or elbows.

• Step 2. Squeeze diclofenac sodium topical gel onto the dosing card evenly up to the 4 g line (a 4.5 inch length of gel), making sure the gel covers the 4 g area of the The dose for your feet, ankles, or knees is 4 grams of dosing card (see Figure E). Put the cap back on the tube of diclofenac sodium topical gel each time you apply it.

diclofenac sodium topical gel. Ask your healthcare provider • Apply diclofenac sodium topical gel 4 times a day (a total or pharmacist if you are not sure how to correctly measure

Some examples of diclofenac sodium topical gel application ankle, or knee. You can use the dosing card to apply the gel (see Figure F). Then, use your hands to gently rub the gel • If you use 2 grams of diclofenac sodium topical gel on one into the skin (see Figure G). Do not share your dosing card knee, 4 times a day, your total dose for one day is 16 grams. above, below, inside and outside the knee cap. Remember

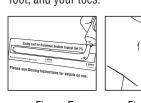




Figure E Figure F Before you use a new tube of diclofenac sodium topical gel
 Refer to Steps 4 and 5 above. Wash your hands after

remove the dosing card from the carton to measure your What are the ingredients in diclofenac sodium topical gel 1% ?

• Do not use heating pads or apply bandages to where you cocoyl caprylocaprate, fragrance, isopropyl alcohol, mineral

How should I store diclofenac sodium topical gel? • Store at 20°C to 25°C (68°F to 77°F); excursions permitted

- between 15°C to 30°C (59°F to 86°F).
- Store the dosing card with your diclofenac sodium topical

topical gel in your eyes, rinse your eyes right away with This Medication Guide and Instructions for Use have been Manufactured by: Cipla Ltd., Verna Goa, India Manufactured for: Cipla USA, Inc.

Revised: 10/2020

diclofenac sodium topical gel in an uncontrolled, open-label, long-term safety trial in osteoarthritis of the knee. Of these, 355 patients were treated for osteoarthritis of 1 knee and 228 were treated for osteoarthritis of 1 knee and 228 were treated for osteoarthritis of the placebo-controlled studies, and up of both knees. Duration of exposure ranged from 8 to 12 weeks for the placebo-controlled studies, and up exposure, have a background rate of 2-4% for major malformations, and 15-20% for pregnancy loss. In

Adverse reactions observed in at least 1% of patients treated with diclofenac sodium topical gel: Non-serious adverse reactions that were reported during the short-term placebo-controlled studies comparing diclofenac sodium topical gel and placebo (vehicle gel) over study periods of 8 to 12 weeks (16 g per day), were application site reactions. These were the only adverse reactions that occurred in placebo group (2%).

topical gel, compared to 1% of placebo patients. Table 1. Non-serious Application Site Adverse Reactions (≥1% Diclofenac Sodium Patients) – Short-

	Diclofenac sodium topical gel N=913	Placebo (vehicle) N=876	
Adverse Reaction†	N (%)	N (%)	
Any application site reaction	62 (7)	19 (2)	
Application site dermatitis	32 (4)	6 (<1)	
Application site pruritus	7 (<1)	1 (<1)	
Application site erythema	6 (<1)	3 (<1)	
Application site paresthesia	5 (<1)	3 (<1)	
Application site dryness	4 (<1)	3 (<1)	
Application site vesicles	3 (<1)	0	
Application site irritation	2 (<1)	0	
Application site papules	1 (<1)	0	

with diclofenac sodium topical gel, and 3% for patients in the placebo group. Application site reactions, Dat

reactions that led to the discontinuation of the study drug were experienced in 12% of patients. The most common adverse reaction that led to discontinuation of the study was application site dermatitis, which was experienced by 6% of patients.

Drugs That Inter Clinical Impact:	Ticre with Hemostasis 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.			
	 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 diclofenac sodium 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 (5.11)].			
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 [see Warnings and Precautions (5.2)].			
Intervention:	Concomitant use of diclofenac sodium and analgesic doses of aspirin is not generall recommended because of the increased risk of bleeding [see Warnings and Precaution (5.11)]. Diclofenac sodium is not a substitute for low dose aspirin for cardiovascula protection.			
ACE Inhibitors,	Angiotensin Receptor Blockers, and Beta-Blockers			
Clinical Impact:	 NSAIDs may diminish the antihypertensive effect of angiotensin converting enzyme (ACE) inhibitors, angiotensin receptor blockers (ARBs), or beta-blockers (including propranolol). In patients who are elderly, volume-depleted (including those on 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 diclofenac sodium and ACE-inhibitors, ARBs, or beta-blockers, monitor blood pressure to ensure that the desired blood pressure is obtained.			
	 During concomitant use of diclofenac sodium 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	Olivinal studies as well as and analysis a short stice about that NOAIDs and used			
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 prostaglanding synthesis.			
Intervention:	During concomitant use of diclofenac sodium 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 sodium and digoxin, monitor serum digoxin levels.			
Lithium				
Clinical Impact:	npact: NSAIDs have produced elevations in plasma lithium levels and reductions in rena 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 sodium 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 sodium and methotrexate, monitor patients for methotrexate toxicity.			
Cyclosporine	I.			
Clinical Impact:	Concomitant use of diclofenac sodium and cyclosporine may increase cyclosporine's nephrotoxicity.			
Intervention:	During concomitant use of diclofenac sodium and cyclosporine, monitor patients for signs of worsening renal function.			
NSAIDs and Sal				
Clinical Impact:	Concomitant use of diclofenac with other NSAIDs or salicylates (e.g., diffunisal, salsalate) increases the risk of GI toxicity, with little or no increase in efficacy [see Warnings and Precautions (5.2)].			
Intervention: Pemetrexed	The concomitant use of diclofenac with other NSAIDs or salicylates is not recommended.			
Clinical Impact:	Concomitant use of dictofenac sodium and pemetrexed may increase the risk of pemetrexed-associated myelosuppression, renal, and GI toxicity (see the pemetrexed prescribing information).			
Intervention:	During concomitant use of diclofenac sodium and pemetrexed, in patients with renal impairment whose creatinine clearance ranges from 45 to 79 mL/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.			

8 USE IN SPECIFIC POPULATIONS

Pregnancy Category C prior to 30 weeks gestation; Category D starting 30 weeks gestation

Risk Summary
Use of NSAIDs, including diclofenac sodium, during the third trimester of pregnancy increases the risk of premature closure of the fetal ductus arteriosus. Avoid use of NSAIDs, including diclofenac sodium, in pregnant women starting at 30 weeks of gestation (third trimester).

There are no adequate and well-controlled studies of diclofenac sodium in pregnant women. Human and animal studies indicate that diclofenac crosses the placenta. Data from observational studies reparding animal studies indicate that diclofenac crosses the placenta. Data from observational studies regarding concurrent use of diclofenac sodium topical gel and heat is not recommended

with longer half-lives (e.g., meloxicam, nabumetone), patients taking these NSAIDs

uld interrupt dosing for at least five days before, the day of, and two days following

animal reproduction studies, no evidence of teratogenicity was observed in mice, rats, or rabbits given diciofenac during the period of organogenesis at doses up to approximately 5, 5, and 10 times, respectively.

Table 2 for clinically significant drug interactions of NSAIDs with aspirin [see Drug Interactions (7)].

NONCLINICAL TOXICOLOGY the maximum recommended topical dose of diclofenac sodium, despite the presence of maternal and fetal toxicity at these doses [see Data]. Based on animal data, prostaglandins have been shown to have an important role in endometrial vascular narreshilm, black an important role in endometrial vascular narreshilm, black and important role in endometrial vascular narreshilm. important role in endometrial vascular permeability, blastocyst implantation, and decidualization. In animal studies, administration of prostaglandin synthesis inhibitors such as diclofenac, resulted in increased preand post-implantation loss.

Carcinogenesis

Carcinogenesis

Carcinogenesis tudies in mice and rats administered diclofenac sodium as a dietary constituent for 2 years at doses up to 2 mg/kg/day (approximately 0.5 and 1 times, respectively, the maximum

Table 1 lists the types of application site reactions reported. Application site dermatitis was the most frequent type of application site reaction and was reported by 4% of patients treated with diclofenac sodium.

**Table 1 lists the types of application site reactions are reaction and was reported by 4% of patients treated with diclofenac sodium. There are no studies on the effects of diclofenac sodium during labor or delivery. In animal studies, MSAIDS including diclofenac inhibit procedured in which is a studies of the effects of diclofenac sodium.

Reproductive and developmental studies in animals demonstrated that diclofenac sodium administration during organogenesis did not produce teratogenicity despite the induction of maternal toxicity and fetal toxicity in mice at oral doses up to 20 mg/kg/day (approximately 5 times the maximum recommended Diclofenac was not mutagenic or clastogenic in a battery of genotoxicity tests that included the bacterial description studies in the control of the cont human dose (MRHD) of diclofenac sodium based on bioavailability and body surface area (BSA) reverse mutation assay, in vitro mouse lymphoma point mutation assay, chromosomal aberration studies in comparison), and in rats and rabbits at oral doses up to 10 mg/kg/day (approximately 5 and 10 times the MRHD based on bioavailability and BSA comparison).

In a study in which pregnant rats were orally administered 2 or 4 mg/kg diclofenac (approximately 1 and 2 times the MRHD based on bioavailability and BSA comparison) from Gestation Day 15 through Lactation Day 21, significant maternal toxicity (peritonitis, mortality) was noted. These maternally toxic 14 CLINICAL STUDIES oses were associated with dystocia, prolonged gestation, reduced fetal weights and growth, and reduced

14.1 Pivotal Studies in Osteoarthritis of the Superficial Joints of the Extremities

8.2 Lactation

Based on the mechanism of action, the use of prostaglandin-mediated NSAIDs, including diclofenac sodium, may delay or prevent rupture of ovarian follicles, which has been associated with reversible tility in some women. Published animal studies have shown that administration of prostaglandin insign in some women. I business a limited studies have some make a minimum attention by prostaglandin-sis inhibitors has the potential to disrupt prostaglandin-mediated follicular rupture required for tion. Small studies in women treated with NSAIDs have also shown a reversible delay in ovulation. der withdrawal of NSAIDs, including diclofenac sodium, in women who have difficulties conceiving are undergoing investigation of infertility.

and effectiveness in pediatric patients have not been established

patients, compared to younger patients, are at greater risk for NSAID-associated seriou y patients, compared to younger patients, are at greater has no internal absolutions of the elderly ovascular, gastrointestinal, and/or renal adverse reactions. If the anticipated benefit for the elderly into outweighs these potential risks, start dosing at the low end of the dosing range, and monitor scale from 0 (best) to 100 (worst).

WOMAC = Western Ontario McMaster Osteoarthritis Index.

**Scale from 0 (best) to 100 (worst).

the total number of subjects treated with diclofenac sodium topical gel in clinical studies, 498 were ears of age and over. No overall differences in effectiveness or safety were observed between these each younger subjects, but greater sensitivity to the effect of NSAIDs in some older individuals center and younger subjects, but greater sensitivity to the effect of NSAIDs in some older individuals

not be ruled out.

ofenac, as with any NSAID, is known to be substantially excreted by the kidney, and the risk of toxic citions to diclofenac sodium may be greater in patients with impaired renal function. Because elderly ients are more likely to have decreased renal function, care should be taken when using diclofenac dium topical gel in the elderly, and it may be useful to monitor renal function.

6 HOW SUPPLIED/STORAGE AND HANDLING

Diclofenac sodium topical gel, 1% is a white opaque gel available in aluminium tubes with polypropylene cap containing 100 grams of the topical gel. Each tube contains diclofenac sodium, USP in a gel base (10 mg of diclofenac sodium, USP per gram of gel or 1%).

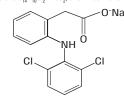
NDC 69097-524-44

ptoms following acute NSAID overdosages have been typically limited to lethargy, drowsiness, nausea, ptoms following acute NSAID overdosages have been typically limited to lethargy, drowsiness, nausea, titing, and epigastric pain, which have been generally reversible with supportive care. Gastrointestinal ling has occurred. Hypertension, acute renal failure, respiratory depression, and coma have occurred, when the properties and Proposition (5.1.5.2.5.4.5.6.1). Controlled Room Temperature]. Keep from freezing. Store the dosing card with your diclofenac sodium ere rare [see Warnings and Precautions (5.1, 5.2, 5.4, 5.6)]. age patients with symptomatic and supportive care following an NSAID overdosage. There are no 17 PATIENT COUNSELING INFORMATION

fife antidotes. Forced diuresis, alkalinization of urine, hemodialysis, or hemoperfusion may not be all due to high protein binding.

Advise the patient to read the FDA-approved patient labeling (Medication Guide and Instructions for Use) that accompanies each prescription dispensed. Patients, families, or their caregivers should be informed dditional information about overdosage treatment, contact a poison control center

fenac sodium is a nonsteroidal anti-inflammatory drug (NSAID) for topical use only. The chemical Advise patients to be alert for the symptoms of cardiovascular thrombotic events, including chest pain, is 2-[(2,6-dichlorophenyl) amino]benzene-acetic acid, monosodium salt. The molecular weight is shortness of breath, weakness, or slurring of speech, and to report any of these symptoms to their health 4. Its molecular formula is C₁₄H₁₀Cl₂NNaO₂, and it has the following chemical structure:



tains the active ingredient, diclofenac sodium, USP in an opaque, white gel base, Diclofenac sodium s a white to off-white, amorphous, crystalline powder. Diclofenac sodium is a benzeneacetic acid

Heart Failure and Edema

nactive ingredients in diclofenac sodium topical gel include: carbomer homopolymer Type C. cocoyl ocaprate, fragrance, isopropyl alcohol, mineral oil, polyoxyl 20 cetostearyl ether, propylene glycol, d water, and strong ammonia solution

LINICAL PHARMACOLOGY

Mechanism of Action fenac has analgesic, anti-inflammatory, and antipyretic propertie

ves inhibition of cyclooxygenase (COX-1 and COX-2)

of bradykinin in inducing pain in animal movers. Prostagramms are modified of animalimation sed diclofenac is an inhibitor of prostaglandin synthesis, its mode of action may be due to a decrease Fetal Toxicity ostaglandins in peripheral tissues. Pharmacokinetics
pharmacokinetics of diclofenac sodium were assessed in healthy volunteers following repeated weeks gestation because of the risk of the premature closing of the fetal ductus arteriosus [see Warnings and Precautions (5.10) and Use in Specific Populations (8.1)].

Treatment	C _{max} (ng/mL) Mean ± SD % of Oral (CI)	T _{max} (hr) Median Range	AUC ₀₋₂₄ (ng•h/mL) Mean ± SD % of Oral (CI)
Diclofenac sodium topical gel 4 x 4 g per day (=160 mg diclofenac sodium per day)	15 ± 7.3 0.6% (0.5-0.7)	14 (0-24)	233 ± 128 5.8% (5-6.7)
Diclofenac sodium topical gel 4 x 12 g per day (=480 mg diclofenac sodium per day)	53.8 ± 32 2.2% (1.9-2.6)	10 (0-24)	807 ± 478 19.7% (17-22.8)
Diclofenac sodium tablets, orally 3 x 50 mg per day (=150 mg diclofenac sodium per day)	2270 ± 778 100%	6.5 (1-14)	3890 ± 1710 100%

maximum plasma concentration, t___=time of C___. AUC, a=area under the concentration time

mic exposure (area under the concentration-time curve) and maximum plasma concentrations of fenac are significantly lower with diclofenac sodium topical gel than with comparable oral treatment Instruct patients not to apply diclofenac sodium topical gel to open skin wounds, infections, inflammations,

topical gel of 1 knee, 4 times a day versus 50 mg, 3 times a day of oral diclofenac tablets.) The amount of diclofenac sodium that is systemically absorbed from diclofenac sodium topical gel is on average 6% of lastruct patients to minimize or avoid exposure of treated areas to natural or artificial sunlight [see] the systemic exposure from an oral form of diclofenac sodium.

The average peak plasma concentration with recommended use of diclofenac sodium topical gel (4 x 4 g per day applied to 1 knee) is 158 times lower than with the oral treatment. Call toll-free 1-866-604-3 The pharmacokinetics of diclofenac sodium topical gel has been tested under conditions of moderate Manufactured by: Cipla Ltd., Verna Goa, India

recommended human topical dose of diclofenac sodium based on bioavailability and body surface area

(BSA) comparison) resulted in no significant increases in tumor incidence In a dermal carcinogenicity study conducted in albino mice, daily topical applications of a diclofenac sodium sodium concentration than present in diclofenac sodium topical gel) did not increase neoplasm incidence. In a photococarcinogenicity study conducted in hairless mice, topical application of a diclofenac sodium than present in diclofenac sodium topical gel) resulted in an earlier median time of onset of tumors.

Diclofenac did not affect male or female fertility in rats at doses up to 4 mg/kg/day (approximately 2 times

Study 1 evaluated the efficacy of diclofenac sodium topical gel for the treatment of osteoarthritis of the knee in a 12-week randomized double-blind multicenter placebo-controlled parallel-group trial. Diclofenac sodium Risk Summary
Based on available data, diclofenac may be present in human milk. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for CATAFLAM and any potential adverse effects on the breastfeeding from the CATAFLAM or from the underlying material condition.

adverse effects on the breastfed infant from the CATAFLAM or from the underlying maternal condition. Study 2 evaluated the efficacy of diclofenac sodium topical gel for the treatment of osteoarthritis in subjects Une woman treated orally with a diclofenac salt, 150 mg/day, had a milk diclofenac level of 100 mcg/L, parallel-group study. Diclofenac sodium topical gel up to 32 g per day, application site dermatitis was observed in 11% of natients Adverse sodium topical gel up to 32 g per day, application site dermatitis was observed in 11% of natients Adverse

		Diclofenac sodium topical gel	Placebo (Vehicle)	Adjusted Difference (Placebo – Diclofenac sodium topical gel)
Study 1 (Knee) WOMAC Pain ** at Week 12	Sample Size	127	119	
	Mean Outcome	28	37	Δ=7†
	95% Confidence Interval			(1, 12)
Study 2 (Hand) Pain Intensity [‡] at Week 4	Sample Size	198	187	
	Mean Outcome	43	50	Δ=7‡
	95% Confidence Interval			(2, 12)
Study 2 (Hand) Pain Intensity [‡] at Week 6	Sample Size	198	187	
	Mean Outcome	40	47	Δ=7‡
	95% Confidence Interval			(1, 13)

† Difference is adjusted using an analysis of covariance (ANCOVA) model with main effects of treatment

of the following information before initiating therapy with diclofenac sodium topical gel and periodically during the course of ongoing therapy. Cardiovascular Thrombotic Events

care provider immediately [see Warnings and Precautions (5.1)]. <u>Gastrointestinal Bleeding, Ulceration, and Perforation</u>

Advise patients to report symptoms of ulcerations and bleeding, including epigastric pain, dyspepsia, melena, and hematemesis to their health care provider. In the setting of concomitant use of low-dose

aspirin for cardiac prophylaxis, inform patients of the increased risk for and the signs and symptoms of Gl bleeding [see Warnings and Precautions (5.2)]. pruritus, diarrhea, jaundice, right upper quadrant tenderness, and "flu-like" symptoms). If these occur nstruct patients to stop diclofenac sodium topical gel and seek immediate medical therapy [see Warnings

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 throat). Instruct patients to seek immediate emergency help if these occur [see Contraindications (4) and

Serious Skin Reactions mechanism of action of diclofenac sodium, like that of other NSAIDs, is not completely understood but Advise patients to stop diclofenac sodium topical gel immediately if they develop any type of rash and to contact their healthcare provider as soon as possible [see Warnings and Precautions (5.9)

fenac is a potent inhibitor of prostaglandin synthesis in vitro. Diclofenac concentrations reached get therapy have produced in vivo effects. Prostaglandins sensitize afferent nerves and potentiate the Advise females of reproductive potential who desire pregnancy that NSAIDs, including diclofenac sodium, of bradykinin in inducing pain in animal models. Prostaglandins are mediators of inflammation. may be associated with a reversible delay in ovulation [see Use in Specific Populations (8.3)].

Inform pregnant women to avoid use of diclofenac sodium topical gel and other NSAIDs starting at 30

pharmacokinetics of diclofenac sodium were assessed in healthy volunteers rollowing repeated ications during 7 days of diclofenac sodium topical gel to 1 knee (4 x 4 g per day) or to 2 knees and and (4 x 12 g per day) versus the recommended oral dose of diclofenac sodium for the treatment of acarthritis (3 x 50 mg per day). A summary of the pharmacokinetic parameters is presented in Table 2.

Avoid Concomitant Use of NSAIDs Inform patients that the concomitant use of diclofenac sodium topical gel with other NSAIDs or salicylates (e.g., diffunisal, salsalate) is not recommended due to the increased risk of gastrointestinal toxicity, and increased in a fifteen (e.g., diffunisal, salsalate) is not recommended due to the increased risk of gastrointestinal toxicity, and increased in a fifteen (e.g., diffunisal, salsalate) is not recommended due to the increased risk of gastrointestinal toxicity, and increased in a fifteen (e.g., diffunisal, salsalate) is not recommended to the increased risk of gastrointestinal toxicity, and increased in a fifteen (e.g., diffunisal, salsalate) is not recommended to the increased risk of gastrointestinal toxicity, and increased in a fifteen (e.g., diffunisal, salsalate) is not recommended to the increased risk of gastrointestinal toxicity.

little 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

nform patients not to use low-dose aspirin concomitantly with diclofenac sodium topical gel until they talk to their healthcare provider [see Drug Interactions (7)]. nstruct patients to avoid contact of diclofenac sodium topical gel with the eyes and mucosa, although not studied, should be avoided. Advise patients that if eve contact occurs, immediately wash out the eve with water or saline and consult a physician if irritation persists for more than an hour [see Warnings and

Precautions (5.15)]. Special Application Instructions truct patients how to use the dosing card to measure the proper dose of diclofenac sodium topical gel

If the patient loses their dosing card, instruct them that they can call 1-866-604-3268 to request a replacement dosing card or ask their pharmacist for a new dosing card Instruct patients how to correctly measure the 2.25 inches (2 g) dose or 4.5 inches (4 g) dose while waiting

or exfoliative dermatitis, as it may affect absorption and tolerability of the drug. Systemic exposure with recommended use of diclofenac sodium topical gel (4 x 4 g per day applied to 1 knee) is on average 17 times lower than with oral treatment. (Basis: treatment with diclofenac sodium including sunscreens, cosmetics, lotions, moisturizers, and insect repellants. Concomitant use may result

Warnings and Precautions (5.14) and Dosage and Administration (2.4)].