

**SULINDAC- sulindac tablet**  
**PuraCap Laboratories LLC dba Blu Pharmaceuticals**

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**Sulindac Tablets USP, 150 mg and 200 mg Rx only**

**Cardiovascular Thrombotic Events**

- 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 occur early in treatment and may increase with duration of use (see **WARNINGS and PRECAUTIONS**).
- Sulindac tablets are contraindicated in the setting of coronary artery bypass graft (CABG) surgery (see **CONTRAINDICATIONS and WARNINGS**).

**Gastrointestinal Risk**

- NSAIDs cause an increased risk of serious gastrointestinal 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 are at greater risk for serious gastrointestinal events (See **WARNINGS**.)

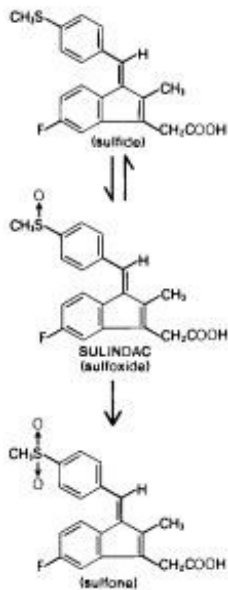
**DESCRIPTION**

Sulindac is a non-steroidal, anti-inflammatory indene derivative designated chemically as (Z)-5-fluoro-2-methyl-1- [[p-(methylsulfinyl) phenyl]methylene] -1 H-indene-3-acetic acid. It is not a salicylate, pyrazolone or propionic acid derivative. Its empirical formula is C<sub>20</sub>H<sub>17</sub>FO<sub>3</sub>S, with a molecular weight of 356.42. Sulindac, a yellow crystalline compound, is a weak organic acid practically insoluble in water below pH 4.5, but very soluble as the sodium salt or in buffers of pH 6 or higher.

Sulindac is available in 150 and 200 mg tablets for oral administration. Each tablet contains the following inactive ingredients: magnesium stearate, microcrystalline cellulose, plasdone and sodium starch glycolate.

Following absorption, sulindac undergoes two major biotransformations - reversible reduction to the sulfide metabolite, and irreversible oxidation to the sulfone metabolite. Available evidence indicates that the biological activity resides with the sulfide metabolite.

The structural formulas of sulindac and its metabolites are:



## CLINICAL PHARMACOLOGY

### ***Pharmacodynamics***

Sulindac is a non-steroidal anti-inflammatory drug (NSAID) that exhibits anti-inflammatory, analgesic and antipyretic activities in animal models. The mechanism of action, like that of other NSAIDs, is not completely understood but may be related to prostaglandin synthetase inhibition.

### ***Pharmacokinetics***

#### *Absorption*

The extent of sulindac absorption from Sulindac Tablets USP is similar as compared to sulindac solution.

There is no information regarding food effect on sulindac absorption. Antacids containing magnesium hydroxide 200 mg and aluminum hydroxide 225 mg per 5 mL have been shown not to significantly decrease the extent of sulindac absorption.

**TABLE 1**

<b>PHARMACOKINETIC PARAMETERS</b>	<b>NORMAL</b>	<b>ELDERLY</b>
$T_{max}$	Age 19-41 (n=24) (200 mg tablet) 3.38 ± 2.30 S 4.88 ± 2.57 SP 4.96 ± 2.36 SF (150 mg tablet) 3.90 ± 2.30 S 5.85 ± 4.49 SP 6.15 ± 3.07 SF	Age 65-87 (n=12) (400 mg qd) 2.54 ± 1.52 S 5.75 ± 2.81 SF 6.83 ± 4.19 SP
	(200 mg tablet) 68.12 ± 27.56 mL/min S	

Renal Clearance	36.58 ± 12.61 mL/min SP (150 mg tablet) 74.39 ± 34.15 mL/min S 41.75 ± 13.72 mL/min SP	
Mean effective Half life (h)	7.8 S 16.4 SF	
	<b>S = Sulindac</b> <b>SF = Sulindac Sulfide</b> <b>SP = Sulindac Sulfone</b>	

### *Distribution*

Sulindac, and its sulfone and sulfide metabolites, are 93.1, 95.4, and 97.9% bound to plasma proteins, predominantly to albumin. Plasma protein binding measured over a concentration range (0.5-2.0 µg/mL) was constant. Following an oral, radiolabeled dose of sulindac in rats, concentrations of radiolabel in red blood cells were about 10% of those in plasma. Sulindac penetrates the blood-brain and placental barriers. Concentrations in brain did not exceed 4% of those in plasma. Plasma concentrations in the placenta and in the fetus were less than 25% and 5% respectively, of systemic plasma concentrations. Sulindac is excreted in rat milk; concentrations in milk were 10 to 20% of those levels in plasma. It is not known if sulindac is excreted in human milk.

### *Metabolism*

Sulindac undergoes two major biotransformations of its sulfoxide moiety: oxidation to the inactive sulfone and reduction to the pharmacologically active sulfide. The latter is readily reversible in animals and in man. These metabolites are present as unchanged compounds in plasma and principally as glucuronide conjugates in human urine and bile. A dihydroxydihydro analog has also been identified as a minor metabolite in human urine.

With the twice-a-day dosage regimen, plasma concentrations of sulindac and its two metabolites accumulate: mean concentration over a dosage interval at steady state relative to the first dose averages 1.5 and 2.5 times higher, respectively, for sulindac and its active sulfide metabolite.

Sulindac and its sulfone metabolite undergo extensive enterohepatic circulation relative to the sulfide metabolite in animals. Studies in man have also demonstrated that recirculation of the parent drug sulindac and its sulfone metabolite is more extensive than that of the active sulfide metabolite. The active sulfide metabolite accounts for less than six percent of the total intestinal exposure to sulindac and its metabolites.

Biochemical as well as pharmacological evidence indicates that the activity of sulindac resides in its sulfide metabolite. An in-vitro assay for inhibition of cyclooxygenase activity exhibited an EC<sub>50</sub> of 0.02µM for sulindac sulfide. In-vivo models of inflammation indicate that activity is more highly correlated with concentrations of the metabolite than with parent drug concentrations.

### *Elimination*

Approximately 50% of the administered dose of sulindac is excreted in the urine with the conjugated sulfone metabolite accounting for the major portion. Less than 1% of the

administered dose of sulindac appears in the urine as the sulfide metabolite. Approximately 25% is found in the feces, primarily as the sulfone and sulfide metabolites.

The mean effective half life ( $T_{1/2}$ ) is 7.8 and 16.4 hours, respectively, for sulindac and its active sulfide metabolite.

Because sulindac is excreted in the urine primarily as biologically inactive forms, it may possibly affect renal function to a lesser extent than other non-steroidal anti-inflammatory drugs; however, renal adverse experiences have been reported with sulindac (see **ADVERSE REACTIONS**).

In a study of patients with chronic glomerular disease treated with therapeutic doses of sulindac, no effect was demonstrated on renal blood flow, glomerular filtration rate, or urinary excretion of prostaglandin  $E_2$  and the primary metabolite of prostacyclin, 6-keto- $PGF_{1\alpha}$ . However, in other studies in healthy volunteers and patients with liver disease, sulindac was found to blunt the renal responses to intravenous furosemide, i.e., the diuresis, natriuresis, increments in plasma renin activity and urinary excretion of prostaglandins. These observations may represent a differentiation of the effects of sulindac on renal functions based on differences in pathogenesis of the renal prostaglandin dependence associated with differing dose-response relationships of different NSAIDs to the various renal functions influenced by prostaglandins (see **PRECAUTIONS**).

In healthy men, the average fecal blood loss, measured over a two-week period during administration of 400 mg per day of sulindac, was similar to that for placebo, and was statistically significantly less than that resulting from 4800 mg per day of aspirin.]

### *Special Populations*

#### *Pediatric*

The pharmacokinetics of sulindac have not been investigated in pediatric patients.

#### *Race*

Pharmacokinetic differences due to race have not been identified.

#### *Hepatic Insufficiency*

Patients with acute and chronic hepatic disease may require reduced doses of sulindac compared to patients with normal hepatic function since hepatic metabolism is an important elimination pathway.

Following a single dose, plasma concentrations of the active sulfide metabolite have been reported to be higher in patients with alcoholic liver disease compared to healthy normal subjects.

#### *Renal Insufficiency*

Sulindac pharmacokinetics have been investigated in patients with renal insufficiency. The disposition of sulindac was studied in end-stage renal disease patients requiring hemodialysis. Plasma concentrations of sulindac and its sulfone metabolite were comparable to those of normal healthy volunteers whereas concentrations of the active

sulfide metabolite were significantly reduced. Plasma protein binding was reduced and the AUC of the unbound sulfide metabolite was about half that in healthy subjects.

Sulindac and its metabolites are not significantly removed from the blood in patients undergoing hemodialysis.

Since sulindac is eliminated primarily by the kidneys, patients with significantly impaired renal function should be closely monitored.

A lower daily dosage should be anticipated to avoid excessive drug accumulation.

In controlled clinical studies sulindac was evaluated in the following five conditions:

### 1. *Osteoarthritis*

In patients with osteoarthritis of the hip and knee, the anti-inflammatory and analgesic activity of sulindac was demonstrated by clinical measurements that included: assessments by both patient and investigator of overall response; decrease in disease activity as assessed by both patient and investigator; improvement in ARA Functional Class; relief of night pain; improvement in overall evaluation of pain, including pain on weight bearing and pain on active and passive motion; improvement in joint mobility, range of motion, and functional activities; decreased swelling and tenderness; and decreased duration of stiffness following prolonged inactivity.

In clinical studies in which dosages were adjusted according to patient needs, sulindac, 200 to 400 mg daily was shown to be comparable in effectiveness to aspirin 2400 to 4800 mg daily. Sulindac was generally well tolerated, and patients on it had a lower overall incidence of total adverse effects, of milder gastrointestinal reactions, and of tinnitus than did patients on aspirin. (See **ADVERSE REACTIONS**.)

### 2. *Rheumatoid arthritis*

In patients with rheumatoid arthritis, the anti-inflammatory and analgesic activity of sulindac was demonstrated by clinical measurements that included: assessments by both patient and investigator of overall response; decrease in disease activity as assessed by both patient and investigator; reduction in overall joint pain; reduction in duration and severity of morning stiffness; reduction in day and night pain; decrease in time required to walk 50 feet; decrease in general pain as measured on a visual analog scale; improvement in the Ritchie articular index; decrease in proximal interphalangeal joint size; improvement in ARA Functional Class; increase in grip strength; reduction in painful joint count and score; reduction in swollen joint count and score; and increased flexion and extension of the wrist.

In clinical studies in which dosages were adjusted according to patient needs, sulindac 300 to 400 mg daily was shown to be comparable in effectiveness to aspirin 3600 to 4800 mg daily. Sulindac was generally well tolerated, and patients on it had a lower overall incidence of total adverse effects, of milder gastrointestinal reactions, and of tinnitus than did patients on aspirin (See **ADVERSE REACTIONS**.)

In patients with rheumatoid arthritis, sulindac may be used in combination with gold salts at usual dosage levels. In clinical studies, sulindac added to the regimen of gold salts usually resulted in additional symptomatic relief but did not alter the course of the underlying disease.

### 3. *Ankylosing spondylitis*

In patients with ankylosing spondylitis, the anti-inflammatory and analgesic activity of sulindac was demonstrated by clinical measurements that included: assessments by both patient and investigator of overall response; decrease in disease activity as assessed by both patient and investigator; improvement in ARA Functional Class; improvement in patient and investigator evaluation of spinal pain, tenderness and/or spasm; reduction in the duration of morning stiffness; increase in the time to onset of fatigue; relief of night pain; increase in chest expansion; and increase in spinal mobility evaluated by fingers-to-floor distance, occiput to wall distance, the Schober Test, and the Wright Modification of the Schober Test. In a clinical study in which dosages were adjusted according to patient need, sulindac 200 to 400 mg daily was as effective as indomethacin 75 to 150 mg daily. In a second study, sulindac 300 to 400 mg daily was comparable in effectiveness to phenylbutazone 400 to 600 mg daily. Sulindac was better tolerated than phenylbutazone (See **ADVERSE REACTIONS**.)

#### 4. *Acute painful shoulder (Acute subacromial bursitis/supraspinatus tendinitis)*

In patients with acute painful shoulder (acute subacromial bursitis/supraspinatus tendinitis), the anti-inflammatory and analgesic activity of sulindac was demonstrated by clinical measurements that included: assessments by both patient and investigator of overall response; relief of night pain, spontaneous pain, and pain on active motion; decrease in local tenderness; and improvement in range of motion measured by abduction, and internal and external rotation. In clinical studies in acute painful shoulder, sulindac 300 to 400 mg daily and oxyphenbutazone 400 to 600 mg daily were shown to be equally effective and well tolerated.

#### 5. *Acute gouty arthritis*

In patients with acute gouty arthritis, the anti-inflammatory and analgesic activity of sulindac was demonstrated by clinical measurements that included: assessments by both the patient and investigator of overall response; relief of weight-bearing pain; relief of pain at rest and on active and passive motion; decrease in tenderness; reduction in warmth and swelling; increase in range of motion; and improvement in ability to function. In clinical studies, sulindac at 400 mg daily and phenylbutazone at 600 mg daily were shown to be equally effective. In these short-term studies in which reduction of dosage was permitted according to response, both drugs were equally well tolerated.

## **INDICATIONS AND USAGE**

Carefully consider the potential benefits and risks of sulindac and other treatment options before deciding to use sulindac. Use the lowest effective dose for the shortest duration consistent with individual patient treatment goals (see **WARNINGS**).

Sulindac is indicated for acute or long-term use in the relief of signs and symptoms of the following:

1. Osteoarthritis
2. Rheumatoid arthritis\*\*
3. Ankylosing spondylitis
4. Acute painful shoulder (Acute subacromial bursitis/supraspinatus tendinitis)
5. Acute gouty arthritis

\*\*The safety and effectiveness of sulindac tablets USP have not been established in rheumatoid arthritis patients who are designated in the American Rheumatism Association classification as Functional Class IV (incapacitated, largely or wholly bedridden, or confined to wheelchair, little or no self-care).

## **CONTRAINDICATIONS**

Sulindac is contraindicated in patients with known hypersensitivity to sulindac or the excipients (see **DESCRIPTION**).

Sulindac should not be given to patients who have experienced asthma, urticaria, or allergic-type reactions after taking aspirin or other NSAIDs. Severe, rarely fatal, anaphylactic/anaphylactoid reactions to NSAIDs have been reported in such patients (see **WARNINGS - Anaphylactic/Anaphylactoid Reactions, and PRECAUTIONS - Preexisting Asthma**).

Sulindac is contraindicated in the setting of coronary artery bypass graft (CABG) surgery (see **WARNINGS**).

## **WARNINGS**

### ***CARDIOVASCULAR EFFECTS***

#### ***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 thrombotic events began as early as the first weeks of treatment. The increase in CV thrombotic risk has been observed most consistently at higher doses.

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

There is no consistent evidence that concurrent use of aspirin mitigates the increased risk of serious CV thrombotic events associated with NSAID use. The concurrent use of aspirin and an NSAID, such as sulindac, increases the risk of serious gastrointestinal (GI) events (see **WARNINGS**).

#### 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 10-14 days following CABG surgery found an increased incidence of myocardial

infarction and stroke. NSAIDs are contraindicated in the setting of CABG (see **CONTRAINDICATIONS**).

### Post-MI Patients

Observational studies conducted in the Danish National Registry have demonstrated that patients treated with NSAIDs in the post-MI period were at increased risk of reinfarction, CV-related death, and all-cause mortality beginning in the first week of treatment. In this same cohort, the incidence of death in the first year post MI was 20 per 100 person years in NSAID-treated patients compared to 12 per 100 person years in non-NSAID exposed patients. Although the absolute rate of death declined somewhat after the first year post-MI, the increased relative risk of death in NSAID users persisted over at least the next four years of follow-up.

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

### ***Hypertension***

NSAIDs, including sulindac, can lead to onset of new hypertension or worsening of pre-existing hypertension, either of which may contribute to the increased incidence of CV events. Patients taking thiazides or loop diuretics may have impaired response to these therapies when taking NSAIDs. NSAIDs, including sulindac, should be used with caution in patients with hypertension. Blood pressure (BP) should be monitored closely during the initiation of NSAID treatment and throughout the course of therapy.

### ***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 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 for heart failure, and death.

Additionally, fluid retention and edema have been observed in some patients treated with NSAIDs. Use of sulindac 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**).

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

### ***Gastrointestinal Effects - Risk of Ulceration, Bleeding, and Perforation***

NSAIDs, including sulindac, can cause serious gastrointestinal (GI) adverse events including inflammation, bleeding, ulceration, and perforation of the 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 occur in approximately 1% of patients treated for 3-6 months, and in about 2-4% of patients treated for one year. These trends continue with longer duration of use, increasing the likelihood of developing a serious GI event at some time during the course of therapy. However, even short-term therapy is not without risk.

NSAIDs should be prescribed with extreme caution in those with prior history of ulcer disease or gastrointestinal bleeding. Patients with a *prior history of peptic ulcer disease and/or gastrointestinal bleeding* who use NSAIDs have a greater than 10-fold increased risk for developing a GI bleed compared to patients with neither of these risk factors. Other factors that increase the risk for GI bleeding in patients treated with NSAIDs include concomitant use of oral corticosteroids or anticoagulants, longer duration of NSAID therapy, smoking, use of alcohol, older age, and poor general health status. Most spontaneous reports of fatal GI events are in elderly or debilitated patients and therefore, special care should be taken in treating this population.

To minimize the potential risk for an adverse GI event in patients treated with an NSAID, the lowest effective dose should be used for the shortest possible duration. Patients and physicians should remain alert for signs and symptoms of GI ulceration and bleeding during NSAID therapy and promptly initiate additional evaluation and treatment if a serious GI adverse event is suspected. This should include discontinuation of the NSAID until a serious GI adverse event is ruled out. For high risk patients, alternate therapies that do not involve NSAIDs should be considered.

### **Hepatic Effects**

In addition to hypersensitivity reactions involving the liver, in some patients the findings are consistent with those of cholestatic hepatitis (see **WARNINGS, Hypersensitivity**). As with other non-steroidal anti-inflammatory drugs, borderline elevations of one or more liver tests without any other signs and symptoms may occur in up to 15% of patients taking NSAIDs including sulindac. These laboratory abnormalities may progress, may remain essentially unchanged, or may be transient with continued therapy. The SGPT (ALT) test is probably the most sensitive indicator of liver dysfunction. Meaningful (3 times the upper limit of normal) elevations of SGPT or SGOT (AST) occurred in controlled clinical trials in less than 1% of patients. Notable elevations of ALT or AST (approximately three or more times the upper limit of normal) have been reported in approximately 1% of patients in clinical trials with NSAIDs. In addition, rare cases of severe hepatic reactions, including jaundice and fatal fulminant hepatitis, liver necrosis and hepatic failure, some of them with fatal outcomes have been reported.

A patient with symptoms and/or signs suggesting liver dysfunction, or in whom an abnormal liver test has occurred, should be evaluated for evidence of the development of a more severe hepatic reaction while on therapy with sulindac. Although such reactions as described above are rare, if abnormal liver tests persist or worsen, if clinical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophilia, rash, etc.), sulindac should be discontinued.

In clinical trials with sulindac, the use of doses of 600 mg/day has been associated with an increased incidence of mild liver test abnormalities (see **DOSAGE AND ADMINISTRATION** for maximum dosage recommendation).

## ***Renal Effects***

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 a non-steroidal anti-inflammatory drug 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, heart failure, liver dysfunction, those taking diuretics and ACE inhibitors, patients who are volume-depleted, and the elderly. Discontinuation of NSAID therapy is usually followed by recovery to the pretreatment state.

## ***Advanced Renal Disease***

No information is available from controlled clinical studies regarding the use of sulindac in patients with advanced renal disease. Therefore, treatment with sulindac is not recommended in these patients with advanced renal disease. If sulindac therapy must be initiated, close monitoring of the patient's renal function is advisable.

## ***Anaphylactic/Anaphylactoid Reactions***

As with other NSAIDs, anaphylactic/anaphylactoid reactions may occur in patients without known prior exposure to sulindac. Sulindac should not be given to patients with the aspirin triad. This symptom complex typically occurs in asthmatic patients who experience rhinitis with or without nasal polyps, or who exhibit severe, potentially fatal bronchospasm after taking aspirin or other NSAIDs (see **CONTRAINDICATIONS** and **PRECAUTIONS - Preexisting Asthma**). Emergency help should be sought in cases where an anaphylactic/anaphylactoid reaction occurs.

## ***Skin Reactions***

NSAIDs, including sulindac, can cause serious adverse events such as exfoliative dermatitis, Stevens-Johnson Syndrome (SJS), and toxic epidermal necrolysis (TEN), which can be fatal. These serious events may occur without warning. Patients should be informed about the signs and symptoms of serious skin manifestations and use of the drug should be discontinued at the first appearance of skin rash or any other sign of hypersensitivity.

## ***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 sulindac. 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 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 sulindac and evaluate the patient immediately.

## ***Hypersensitivity***

Rarely, fever and other evidence of hypersensitivity (see **ADVERSE REACTIONS**) including abnormalities in one or more liver function tests and severe skin reactions have occurred during therapy with sulindac. Fatalities have occurred in these patients. Hepatitis, jaundice, or both, with or without fever, may occur usually within the first one to three months of therapy. Determinations of liver function should be considered whenever a patient on therapy with sulindac develops unexplained fever, rash or other dermatologic reactions or constitutional symptoms. If unexplained fever or other evidence of hypersensitivity occurs, therapy with sulindac should be discontinued. The elevated temperature and abnormalities in liver function caused by sulindac characteristically have reverted to normal after discontinuation of therapy. Administration of sulindac should not be reinstated in such patients.

## ***Fetal Toxicity***

### Premature Closure of Fetal Ductus Arteriosus:

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

### Oligohydramnios/Neonatal Renal Impairment:

Use of NSAIDs, including sulindac, at about 20 weeks gestation or later in pregnancy may cause 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. 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 sulindac use to the lowest effective dose and shortest duration possible. Consider ultrasound monitoring of amniotic fluid if sulindac treatment extends beyond 48 hours. Discontinue sulindac if oligohydramnios occurs and follow up according to clinical practice (see PRECAUTIONS; Pregnancy).

## **PRECAUTIONS**

### ***General***

Sulindac cannot be expected to substitute for corticosteroids or to treat corticosteroid insufficiency. Abrupt discontinuation of corticosteroids may lead to disease exacerbation. Patients on prolonged corticosteroid therapy should have their therapy tapered slowly if a decision is made to discontinue corticosteroids.

The pharmacological activity of sulindac in reducing fever and inflammation may diminish the utility of these diagnostic signs in detecting complications of presumed noninfectious, painful conditions.

### ***Hematological Effects***

Anemia is sometimes seen in patients receiving NSAIDs, including sulindac. This may be due to fluid retention, occult or gross GI blood loss, or an incompletely described effect upon erythropoiesis. Patients on long-term treatment with NSAIDs, including sulindac, should have their hemoglobin or hematocrit checked if they exhibit any signs or symptoms of anemia.

NSAIDs inhibit platelet aggregation and have been shown to prolong bleeding time in some patients. Unlike aspirin, their effect on platelet function is quantitatively less, of shorter duration, and reversible. Patients receiving sulindac who may be adversely affected by alterations in platelet function, such as those with coagulation disorders or patients receiving anticoagulants, should be carefully monitored.

### ***Preexisting Asthma***

Patients with asthma may have aspirin-sensitive asthma. The use of aspirin in patients with aspirin-sensitive asthma has been associated with severe bronchospasm which can be fatal. Since cross reactivity, including bronchospasm, between aspirin and other non-steroidal anti-inflammatory drugs has been reported in such aspirin-sensitive patients, sulindac should not be administered to patients with this form of aspirin sensitivity and should be used with caution in patients with preexisting asthma.

### ***Renal Calculi***

Sulindac metabolites have been reported rarely as the major or a minor component in renal stones in association with other calculus components. Sulindac should be used with caution in patients with a history of renal lithiasis, and they should be kept well hydrated while receiving sulindac.

### ***Pancreatitis***

Pancreatitis has been reported in patients receiving sulindac (see **ADVERSE REACTIONS**). Should pancreatitis be suspected, the drug should be discontinued and not restarted, supportive medical therapy instituted, and the patient monitored closely with appropriate laboratory studies (e.g., serum and urine amylase, amylase/creatinine clearance ratio, electrolytes, serum calcium, glucose, lipase, etc.). A search for other causes of pancreatitis as well as those conditions which mimic pancreatitis should be conducted.

### ***Ocular Effects***

Because of reports of adverse eye findings with non-steroidal anti-inflammatory agents, it is recommended that patients who develop eye complaints during treatment with sulindac have ophthalmologic studies.

### ***Hepatic Insufficiency***

In patients with poor liver function, delayed, elevated and prolonged circulating levels of the sulfide and sulfone metabolites may occur. Such patients should be monitored closely; a reduction of daily dosage may be required.

### ***SLE and Mixed Connective Tissue Disease***

In patients with systemic lupus erythematosus (SLE) and mixed connective tissue disease, there may be an increased risk of aseptic meningitis (see **ADVERSE REACTIONS**).

### ***Information for Patients***

**Patients should be informed of the following information before initiating therapy with an NSAID and periodically during the course of ongoing therapy. Patients should also be encouraged to read the NSAID Medication Guide that accompanies each prescription dispensed.**

1. **Cardiovascular Thrombotic Events**

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

2. Sulindac, like other NSAIDs, can cause GI discomfort and, rarely, serious GI side effects, such as ulcers and bleeding, which may result in hospitalization and even death. Although serious GI tract ulcerations and bleeding can occur without warning symptoms, patients should be alert for the signs and symptoms of ulcerations and bleeding, and should ask for medical advice when observing any indicative sign or symptoms including epigastric pain, dyspepsia, melena, and hematemesis. Patients should be apprised of the importance of this follow-up (see **WARNINGS, Gastrointestinal Effects - Risk of Ulceration, Bleeding, and Perforation**).

3. **Serious Skin Reactions, including DRESS**

Advise patients to stop taking sulindac immediately if they develop any type of rash or fever and to contact their healthcare provider as soon as possible (see **WARNINGS**).

4. **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**).

5. Patients should be informed of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, pruritus, jaundice, right upper quadrant tenderness, and “flu-like” symptoms). If these occur, patients should be instructed to stop therapy and seek immediate medical therapy.

6. Patients should be informed of the signs of an anaphylactic/anaphylactoid reaction (e.g., difficulty breathing, swelling of the face or throat). If these occur, patients should be instructed to seek immediate emergency help (see **WARNINGS**).

7. **Fetal Toxicity**

Inform pregnant women to avoid use of sulindac and other NSAIDs starting at 30 weeks gestation because of the risk of the premature closing of the fetal ductus arteriosus. If treatment with sulindac 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 treatment continues for longer than 48 hours (see **WARNINGS; Fetal Toxicity, PRECAUTIONS; Pregnancy**).

### ***Laboratory Tests***

Because serious GI tract ulcerations and bleeding can occur without warning symptoms, physicians should monitor for signs or symptoms of GI bleeding. Patients on long-term

treatment with NSAIDs should have their CBC and a chemistry profile checked periodically. If clinical signs and symptoms consistent with liver or renal disease develop, systemic manifestations occur (e.g., eosinophilia, rash, etc.) or if abnormal liver tests persist or worsen, sulindac should be discontinued.

## **Drug Interactions**

### ***ACE-Inhibitors and Angiotensin II Antagonists***

Reports suggest that NSAIDs may diminish the antihypertensive effect of ACE-inhibitors and angiotensin II antagonists. These interactions should be given consideration in patients taking NSAIDs concomitantly with ACE-inhibitors or angiotensin II antagonists. In some patients with compromised renal function (e.g., elderly patients or patients who are volume-depleted, including those on diuretic therapy) who are being treated with non-steroidal anti-inflammatory drugs, the co-administration of an NSAID and an ACE-inhibitor or an angiotensin II antagonist may result in further deterioration of renal function, including possible acute renal failure, which is usually reversible. Therefore, monitor renal function periodically in patients receiving ACEIs or AIIAs and NSAIDs in combination therapy.

### ***Acetaminophen***

Acetaminophen had no effect on the plasma levels of sulindac or its sulfide metabolite.

### ***Aspirin***

The concomitant administration of aspirin with sulindac significantly depressed the plasma levels of the active sulfide metabolite. A double-blind study compared the safety and efficacy of sulindac 300 or 400 mg daily given alone or with aspirin 2.4 g/day for the treatment of osteoarthritis. The addition of aspirin did not alter the types of clinical or laboratory adverse experiences for sulindac; however, the combination showed an increase in the incidence of gastrointestinal adverse experiences. Since the addition of aspirin did not have a favorable effect on the therapeutic response to sulindac, the combination is not recommended.

### ***Cyclosporine***

Administration of non-steroidal anti-inflammatory drugs concomitantly with cyclosporine has been associated with an increase in cyclosporine-induced toxicity, possibly due to decreased synthesis of renal prostacyclin. NSAIDs should be used with caution in patients taking cyclosporine, and renal function should be carefully monitored.

### ***Diflunisal***

The concomitant administration of sulindac and diflunisal in normal volunteers resulted in lowering of the plasma levels of the active sulindac sulfide metabolite by approximately one-third.

### ***Diuretics***

Clinical studies, as well as post marketing observations, have shown that sulindac can reduce the natriuretic effect of furosemide and thiazides in some patients. This response has been attributed to inhibition of renal prostaglandin synthesis. During concomitant

therapy with NSAIDs, the patient should be observed closely for signs of renal failure (see **WARNINGS, Renal Effects**), as well as to assure diuretic efficacy.

### ***DMSO***

DMSO should not be used with sulindac. Concomitant administration has been reported to reduce the plasma levels of the active sulfide metabolite and potentially reduce efficacy. In addition, this combination has been reported to cause peripheral neuropathy.

### ***Lithium***

NSAIDs have produced an elevation of plasma lithium levels and a reduction in renal lithium clearance. The mean minimum lithium concentration increased 15% and the renal clearance was decreased by approximately 20%. These effects have been attributed to inhibition of renal prostaglandin synthesis by the NSAID. Thus, when NSAIDs and lithium are administered concurrently, subjects should be observed carefully for signs of lithium toxicity.

### ***Methotrexate***

NSAIDs have been reported to competitively inhibit methotrexate accumulation in rabbit kidney slices. This may indicate that they could enhance the toxicity of methotrexate. Caution should be used when NSAIDs are administered concomitantly with methotrexate.

### ***NSAIDs***

The concomitant use of sulindac with other NSAIDs is not recommended due to the increased possibility of gastrointestinal toxicity, with little or no increase in efficacy.

### ***Oral anticoagulants***

Although sulindac and its sulfide metabolite are highly bound to protein, studies in which sulindac was given at a dose of 400 mg daily have shown no clinically significant interaction with oral anticoagulants. However, patients should be monitored carefully until it is certain that no change in their anticoagulant dosage is required. Special attention should be paid to patients taking higher doses than those recommended and to patients with renal impairment or other metabolic defects that might increase sulindac blood levels. The effects of warfarin and NSAIDs on GI bleeding are synergistic, such that users of both drugs together have a risk of serious GI bleeding higher than users of either drug alone.

### ***Oral hypoglycemic agents***

Although sulindac and its sulfide metabolite are highly bound to protein, studies in which sulindac was given at a dose of 400 mg daily, have shown no clinically significant interaction with oral hypoglycemic agents. However, patients should be monitored carefully until it is certain that no change in their hypoglycemic dosage is required. Special attention should be paid to patients taking higher doses than those recommended and to patients with renal impairment or other metabolic defects that might increase sulindac blood levels.

## **Probenecid**

Probenecid given concomitantly with sulindac had only a slight effect on plasma sulfide levels, while plasma levels of sulindac and sulfone were increased. Sulindac was shown to produce a modest reduction in the uricosuric action of probenecid, which probably is not significant under most circumstances.

## **Propoxyphene hydrochloride**

Propoxyphene hydrochloride had no effect on the plasma levels of sulindac or its sulfide metabolite.

## **Pregnancy**

### Risk Summary

Use of NSAIDs, including sulindac, 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 sulindac use between about 20 and 30 weeks of gestation, and avoid sulindac use at about 30 weeks of gestation and later in pregnancy (see WARNINGS; Fetal Toxicity).

### *Premature Closure of Fetal Ductus Arteriosus*

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

### *Oligohydramnios/Neonatal Renal Impairment*

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.

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 reproduction studies rats and rabbits have not demonstrated evidence of developmental abnormalities. However, animal reproduction studies are not always predictive of human response. There are no adequate and well-controlled studies in pregnant women. Sulindac should be used in pregnancy only if the potential benefit justifies the potential risk to the fetus. 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 sulindac, resulted in increased pre- and post-implantation loss. Prostaglandins also have been shown to have an important role in fetal kidney development. In published animal studies, prostaglandin synthesis inhibitors have been reported to impair kidney development when administered at clinically relevant doses.

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



## Clinical Considerations

### *Fetal/Neonatal Adverse Reactions*

#### *Premature Closure of Fetal Ductus Arteriosus:*

Avoid use of NSAIDs in women at about 30 weeks gestation and later in pregnancy, because NSAIDs, including sulindac, can cause premature closure of the fetal ductus arteriosus (see WARNINGS; Fetal Toxicity).

#### *Oligohydramnios/Neonatal Renal Impairment*

If an NSAID is necessary at about 20 weeks gestation or later in pregnancy, limit the use to the lowest effective dose and shortest duration possible. If sulindac treatment extends beyond 48 hours, consider monitoring with ultrasound for oligohydramnios. If oligohydramnios occurs, discontinue sulindac and follow up according to clinical practice (see WARNINGS; Fetal Toxicity).

## Data

### *Human Data*

There are no adequate, well-controlled studies in pregnant women. Sulindac tablets should be used in pregnancy only if the potential benefit justifies the potential risk to the fetus.

The known effect of drugs of this class on the human fetus during the third trimester of pregnancy include: constriction of the ductus arteriosus prenatally, tricuspid incompetence, and pulmonary hypertension; nonclosure of the ductus arteriosus postnatally which may be resistant to medical management; myocardial degenerative changes, platelet dysfunction with resultant bleeding, intracranial bleeding, renal dysfunction or failure, renal injury/dysgenesis which may result in prolonged or permanent renal failure, oligohydramnios, gastrointestinal bleeding or perforation, and increased risk of necrotizing enterocolitis.

#### *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 Impairment:*

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 on 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.

### ***Labor and Delivery***

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

### ***Nursing Mothers***

It is not known whether this drug is excreted in human milk; however, it is secreted in the milk of lactating rats. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from sulindac, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

### ***Pediatric Use***

Safety and effectiveness in pediatric patients have not been established.

### ***Geriatric Use***

As with any NSAID, caution should be exercised in treating the elderly (65 years and older) since advancing age appears to increase the possibility of adverse reactions. Elderly patients seem to tolerate ulceration or bleeding less well than other individuals and many spontaneous reports of fatal GI events are in this population (see ***WARNINGS, Gastrointestinal Effects - Risk of Ulceration, Bleeding, and Perforation***).

Sulindac is known to be substantially excreted by the kidney and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection and it may be useful to monitor renal function (See ***WARNINGS, Renal Effects***).

## **ADVERSE REACTIONS**

The following adverse reactions were reported in clinical trials or have been reported since the drug was marketed. The probability exists of a causal relationship between sulindac and these adverse reactions. The adverse reactions which have been observed in clinical trials encompass observations in 1,865 patients, including 232 observed for at least 48 weeks.

### ***Incidence Greater Than 1%***

#### ***Gastrointestinal***

The most frequent types of adverse reactions occurring with sulindac are gastrointestinal; these include gastrointestinal pain (10%), dyspepsia\*\*\*, nausea\*\*\* with

or without vomiting, diarrhea\*\*\*, constipation\*\*\*, flatulence, anorexia and gastrointestinal cramps.

#### *Dermatologic*

Rash\*\*\*, pruritus

#### *Central Nervous System*

Dizziness\*\*\*, headache\*\*\*, nervousness.

#### *Special Senses*

Tinnitus.

#### *Miscellaneous*

Edema (see **WARNINGS** ).

#### *Incidence Less Than 1 in 100*

#### *Gastrointestinal*

Gastritis, gastroenteritis or colitis. Peptic ulcer and gastrointestinal bleeding have been reported. GI perforation and intestinal strictures (diaphragms) have been reported rarely.

Liver function abnormalities; jaundice, sometimes with fever; cholestasis; hepatitis; hepatic failure.

There have been rare reports of sulindac metabolites in common bile duct “sludge” and in biliary calculi in patients with symptoms of cholecystitis who underwent a cholecystectomy.

Pancreatitis (see **PRECAUTIONS** ).

Ageusia; glossitis.

#### *Dermatologic*

Stomatitis, sore or dry mucous membranes, alopecia, photosensitivity.

Erythema multiforme, toxic epidermal necrolysis, Stevens-Johnson syndrome, and exfoliative dermatitis have been reported.

#### *Cardiovascular*

Congestive heart failure, especially in patients with marginal cardiac function; palpitation; hypertension.

#### *Hematologic*

Thrombocytopenia; ecchymosis, purpura, leukopenia, agranulocytosis, neutropenia, bone marrow depression, including aplastic anemia; hemolytic anemia, increased prothrombin time in patients on oral anticoagulants (see **PRECAUTIONS** ).

#### *Genitourinary*

Urine discoloration; dysuria; vaginal bleeding, hematuria; proteinuria; crystalluria; renal impairment, including renal failure; interstitial nephritis; nephrotic syndrome.

Renal calculi containing sulindac metabolites have been observed rarely.

### *Metabolic*

Hyperkalemia.

### *Musculoskeletal*

Muscle weakness.

### *Psychiatric*

Depression; psychic disturbances including acute psychosis.

### *Nervous System*

Vertigo; insomnia; somnolence; paresthesia; convulsions; syncope; aseptic meningitis (especially in patients with systemic lupus erythematosus (SLE) and mixed connective tissue disease, see **PRECAUTIONS** ).

### *Special Senses*

Blurred vision; visual disturbances; decreased hearing; metallic or bitter taste.

### *Respiratory*

Epistaxis.

### *Hypersensitivity Reactions*

Anaphylaxis; angioneurotic edema; urticaria, bronchial spasm; dyspnea.

Hypersensitivity vasculitis.

A potentially fatal apparent hypersensitivity syndrome has been reported. This syndrome may include constitutional symptoms (fever, chills, diaphoresis, flushing), cutaneous findings (rash or other dermatologic reactions – see above), conjunctivitis, involvement of major organs (changes in liver function including hepatic failure, jaundice, pancreatitis, pneumonitis with or without pleural effusion, leukopenia, leukocytosis, eosinophilia, disseminated intravascular coagulation, anemia, renal impairment, including renal failure), and other less specific findings (adenitis, arthralgia, arthritis, myalgia, fatigue, malaise, hypotension, chest pain, tachycardia).

### *Causal Relationship Unknown*

A rare occurrence of fulminant necrotizing fasciitis, particularly in association with Group A  $\beta$ -hemolytic streptococcus, has been described in persons treated with non-steroidal anti-inflammatory agents, sometimes with fatal outcome (see also **PRECAUTIONS, General**).

Other reactions have been reported in clinical trials or since the drug was marketed, but occurred under circumstances where a causal relationship could not be established. However, in these rarely reported events, that possibility cannot be excluded. Therefore, these observations are listed to serve as alerting information to physicians.

### *Cardiovascular*

Arrhythmia.

### *Metabolic*

Hyperglycemia.

## *Nervous System*

Neuritis.

## *Special Senses*

Disturbances of the retina and its vasculature.

## *Miscellaneous*

Gynecomastia.

\*\*\*Incidence between 3% and 9%. Those reactions occurring in 1% to 3% of patients are not marked with an asterisk.

## **MANAGEMENT OF OVERDOSAGE**

Cases of overdosage have been reported and rarely, deaths have occurred. The following signs and symptoms may be observed following overdosage; stupor, coma, diminished urine output and hypotension.

In the event of overdosage, the stomach should be emptied by inducing vomiting or by gastric lavage, and the patient carefully observed and given symptomatic and supportive treatment.

Animal studies show that absorption is decreased by the prompt administration of activated charcoal and excretion is enhanced by alkalinization of the urine.

## **DOSAGE AND ADMINISTRATION**

Carefully consider the potential benefits and risks of sulindac and other treatment options before deciding to use sulindac. Use the lowest effective dose for the shortest duration consistent with individual patient treatment goals (see **WARNINGS**).

After observing the response to initial therapy with Sulindac Tablets USP, the dose and frequency should be adjusted to suit an individual patient's needs.

Sulindac Tablets should be administered orally twice a day with food. The maximum dosage is 400 mg per day. Dosages above 400 mg per day are not recommended.

In osteoarthritis, rheumatoid arthritis, and ankylosing spondylitis, the recommended starting dosage is 150 mg twice a day. The dosage may be lowered or raised depending on the response.

A prompt response (within one week) can be expected in about one-half of patients with osteoarthritis, ankylosing spondylitis, and rheumatoid arthritis. Others may require longer to respond. In acute painful shoulder (acute subacromial bursitis/supraspinatus tendinitis) and acute gouty arthritis, the recommended dosage is 200 mg twice a day. After a satisfactory response has been achieved, the dosage may be reduced according to the response. In acute painful shoulder, therapy for 7-14 days is usually adequate. In acute gouty arthritis, therapy for 7 days is usually adequate.

## **HOW SUPPLIED**

Sulindac Tablets USP, 150 mg are yellow, round tablets, bisected and debossed with “E” to the left of bisect and “10” to the right of bisect on one side, and plain on the other side. They are supplied as follows:

NDC 24658-770-01 Bottles of 100 Tablets

NDC 24658-770-05 Bottles of 500 Tablets

Sulindac Tablets USP, 200 mg are yellow, oval-shaped tablets, bisected and debossed with “E” to the left of bisect and “11” to the right of bisect on one side, and plain on the other side. They are supplied as follows:

NDC 24658-771-01 Bottles of 100 Tablets

NDC 24658-771-05 Bottles of 500 Tablets

### *Storage*

Store in a well-closed container at 20° to 25° C (68 to 77° F) [See USP Controlled Room Temperature].

Dispense with Medication Guide available at: [www.puracaplabs.com/medguide/Sulindac-Tablet.pdf](http://www.puracaplabs.com/medguide/Sulindac-Tablet.pdf)

Distributed by:

PuraCap Laboratories, LLC

DBA Blu Pharmaceuticals

Greenvale, NY 11548

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## **MEDICATION GUIDE**

**Dispense with Medication Guide available at:  
[www.puracaplabs.com/medguide/Sulindac-Tablet.pdf](http://www.puracaplabs.com/medguide/Sulindac-Tablet.pdf)**

### **Medication Guide for Nonsteroidal Anti-Inflammatory Drugs (NSAIDs)**

**What is the most important information I should know about medicines called Nonsteroidal Anti-Inflammatory Drugs (NSAIDs)?**

**NSAIDs can cause serious side effects, including:**

- **Increased risk of a heart attack or stroke that can lead to death.** This risk may happen early in treatment and may increase:
  - with increasing doses of NSAIDs
  - with longer use of NSAIDs

**Do not take NSAIDs right before or after a heart surgery called a “coronary artery bypass graft (CABG).” Avoid taking NSAIDs after a recent heart attack, unless your healthcare provider tells you to. You may have an increased risk of another heart attack if you take NSAIDs after a recent heart attack.**

- **Increased risk of bleeding, ulcers, and tears (perforation) of the esophagus (tube leading from the mouth to the stomach), stomach and intestines:**
- - anytime during use
  - without warning symptoms
  - that may cause death

**The risk of getting an ulcer or bleeding increases with:**

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

**NSAIDs should only be used:**

- - exactly as prescribed
  - at the lowest dose possible for your treatment
  - for the shortest time needed

**What are NSAIDs?**

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

**Who should not take NSAIDs?**

**Do not take NSAIDs:**

- if you have had an asthma attack, hives, or other allergic reaction with aspirin or any other NSAIDs.
- 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. Taking NSAIDs at about 20 weeks of pregnancy or 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 pregnancy, your healthcare provider may need to monitor the amount of fluid in your womb around your baby. **You should not take NSAIDs after about 30 weeks of pregnancy.**
- are breastfeeding or plan to breast feed.

**Tell your healthcare provider about all of the medicines you take, including**

**prescription or over-the-counter medicines, vitamins or herbal supplements.** NSAIDs and some other medicines can interact with each other and cause serious side effects. **Do not start taking any new 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
- heart failure
- liver problems including liver failure
- kidney problems including kidney failure
- low red blood cells (anemia)
- 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:**

- nausea
- more tired or weaker than usual
- diarrhea
- itching
- your skin or eyes look yellow
- indigestion or stomach pain
- flu-like symptoms
- vomit blood
- there is blood in your bowel movement or it is black and sticky like tar
- unusual weight gain
- skin rash or blisters with fever
- swelling of the arms, legs, hands and feet.

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

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

Call your doctor for medical advice about side effects. You 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 NSAIDs

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.

**Distributed by:** PuraCap Laboratories, LLC  
DBA Blu Pharmaceuticals, Greenvale, NY 11548  
For more information, go to [www.puracaplabs.com](http://www.puracaplabs.com) or call 1-888-374-2791.

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

Rev. 05-2022-00

OE2617

### PACKAGE/LABEL PRINCIPAL DISPLAY PANEL - 150 mg

Sulindac Tablets USP, 150 mg

PHARMACIST: Dispense the accompanying Medication Guide to each patient.

Rx Only

500 Tablets

**No Varnish**

LE3442  
Rev. 05-2022-00

NDC 24658-770-05

**Sulindac  
Tablets, USP**

**150 mg**

PHARMACIST: Dispense the accompanying Medication Guide to each patient.

Rx Only      500 Tablets

*Blu* PHARMACEUTICALS

Each tablet contains:  
Sulindac USP ..... 150 mg

**USUAL DOSAGE:** See accompanying literature for complete prescribing information.

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

Dispense contents in a tight, light-resistant container as defined in the USP with a child-resistant closure, as required.

KEEP TIGHTLY CLOSED.

**KEEP THIS AND ALL MEDICATIONS OUT OF THE REACH OF CHILDREN.**

Print Medication Guide at:  
[www.puracaplabs.com/medguide/Sulindac-Tablet.pdf](http://www.puracaplabs.com/medguide/Sulindac-Tablet.pdf)

Distributed by:  
PuraCap Laboratories, LLC  
DBA Blu Pharmaceuticals  
Greenvale, NY 11548

### PACKAGE/LABEL PRINCIPAL DISPLAY PANEL - 200 mg

Sulindac Tablets USP, 200 mg

PHARMACIST: Dispense the accompanying Medication Guide to each patient.

Rx Only

100 Tablets

No Varnish



LE3449  
Rev. 05-2022-00

NDC 24658-771-01

# Sulindac Tablets, USP

200 mg

PHARMACIST: Dispense the accompanying  
Medication Guide to each patient.

Rx Only    100 Tablets

*Blu* PHARMACEUTICALS

Each tablet contains:  
Sulindac USP ..... 200 mg

**USUAL DOSAGE:** See accompanying literature for complete prescribing information.

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

Dispense contents in a tight, light-resistant container as defined in the USP with a child-resistant closure, as required.

**KEEP TIGHTLY CLOSED.**

**KEEP THIS AND ALL MEDICATIONS OUT OF THE REACH OF CHILDREN.**

Print Medication Guide at:  
[www.puracaplabs.com/medguide/Sulindac-Tablet.pdf](http://www.puracaplabs.com/medguide/Sulindac-Tablet.pdf)

Distributed by:  
PuraCap Laboratories, LLC  
DBA Blu Pharmaceuticals  
Greenvale, NY 11548

## SULINDAC

sulindac tablet

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:24658-770
<b>Route of Administration</b>	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>SULINDAC</b> (UNII: 184SNS8VUH) (SULINDAC - UNII:184SNS8VUH)	SULINDAC	150 mg

### Inactive Ingredients

Ingredient Name	Strength
<b>POVIDONE K29/32</b> (UNII: 390RMW2PEQ)	
<b>CELLULOSE, MICROCRYSTALLINE</b> (UNII: OP1R32D61U)	
<b>SODIUM STARCH GLYCOLATE TYPE A POTATO</b> (UNII: 5856J3G2A2)	
<b>MAGNESIUM STEARATE</b> (UNII: 70097M6130)	

### Product Characteristics

<b>Color</b>	yellow	<b>Score</b>	2 pieces
<b>Shape</b>	ROUND	<b>Size</b>	10mm
<b>Flavor</b>		<b>Imprint Code</b>	E10
<b>Contains</b>			

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:24658-770-01	100 in 1 BOTTLE; Type 0: Not a Combination Product	11/14/2016	
2	NDC:24658-770-05	500 in 1 BOTTLE; Type 0: Not a Combination Product	11/14/2016	

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA072710	11/14/2016	

## SULINDAC

sulindac tablet

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:24658-771
Route of Administration	ORAL		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
SULINDAC (UNII: 184SNS8VUH) (SULINDAC - UNII:184SNS8VUH)	SULINDAC	200 mg

### Inactive Ingredients

Ingredient Name	Strength
POVIDONE K30 (UNII: U725QWY32X)	
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	

### Product Characteristics

Color	yellow	Score	2 pieces
Shape	ROUND	Size	14mm
Flavor		Imprint Code	E11
Contains			

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:24658-771-01	100 in 1 BOTTLE; Type 0: Not a Combination Product	11/14/2016	

2	NDC:24658-771-05	500 in 1 BOTTLE; Type 0: Not a Combination Product	11/14/2016	
<b>Marketing Information</b>				
<b>Marketing Category</b>	<b>Application Number or Monograph Citation</b>		<b>Marketing Start Date</b>	<b>Marketing End Date</b>
ANDA	ANDA072711		11/14/2016	

**Labeler** - PuraCap Laboratories LLC dba Blu Pharmaceuticals (080210964)

**Registrant** - Epic Pharma, LLC (827915443)

<b>Establishment</b>			
<b>Name</b>	<b>Address</b>	<b>ID/FEI</b>	<b>Business Operations</b>
Epic Pharma, LLC		827915443	manufacture(24658-770, 24658-771)

Revised: 12/2022

PuraCap Laboratories LLC dba Blu Pharmaceuticals