HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use NAPROXEN SODIUM CONTROLLEDRELEASE TABLETS safely and effectively. See full prescribing information for NAPROXEN SODIUM
CONTROLLED-RELEASE TABLETS.

NAPRO XEN SODI UM Controlled-Release Tablets, for oral use Initial U.S. Approval: 1976

### See full prescribing information for complete boxed warning.

- 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 (5.1) Naproxen Sodium Controlled-Release Tablets are contraindicated in the setting of coronary artery bypass graft (CABG) surgery (4,5.1) NSAIDs cause an increased risk of serious gastrointestinal (GI) adverse events including bleeding, ulceration, and perforation of the stomach or intestines, which can be fatal. These events can occur at any time during use and without warning symptoms. Ederly 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) "a " a greater risk for serious G events (5.2)

  INDICATIONS AND USAGE

  Naproxen Sodium Controlled-Release Tablets is a nonsteroidal anti-inflammatory drug indicated for the treatment of • rheumatoid arthritis (RA)(1)
  • osteoarthritis (OA)(1)
  • analysiosing apondyliss (AS)(1)
  • tendinitis, bursitis (1)
  • caute gout (1)
  • acute gout (1)

- acute gout (1)
  primary dysmenorrhea (PD)(1)
  the relief of mild to moderate pain (1)

### -- DOSAGE AND ADMINISTRATION ---

- DOS AGE AND ADMINIST RATION.

  DOS AGE AND ADMINIST RATION (IN 1997) When the lowest effective dosage for shortest duration consistent with individual patient treatment goals (2) RA, OA, and AS: The dosage is two 375 mg or 500 mg tablets once daily, or no e750 mg tablet once daily. For patients requiring greater analgests benefit, two 750 mg tablets on three 500 mg tablets may be used for a limited period. For the treatment of Acuter Court. The dosage is two 500 mg tablets may be used for a limited period. For the treatment of Acuter Court. The dosage is two to three 500 mg tablets once daily on the first day, followed by two 500 mg tablets once daily until the attack has subsided.
- Naproxen Sodium Controlled-Release Tablets: 375 mg (3)

  CONT RAINDICATIONS

  Known hypersensitivity to naproxen or any components of the drug product (4)

  History of sathm, urticaria, or other allergic-type reactions after taking aspirin or other NSAIDs (4)

  In the setting of CABG surgery (4)

- NARNINGS AND PRECAUTIONS

  WARNINGS AND PRECAUTIONS

  National Sections of CABG surgery (4)

  WARNINGS AND PRECAUTIONS

  National Sections (1) Inform patients of warning signs and symptoms of hepatotoxicity. Discontinue if abnormal liver tests persist or worsen or if clinical signs and symptoms of liver dheeae develop (5.3)

  National Sections (1) Programmer of the programm

# To report SUSPECTED ADVERSE REACTIONS, SA3, LLC at 1-888-495-6078 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

# ····· DRUG INTERACTIONS ····

- Drugs that Interfere with Hemostasis (e.g. warfain, asprin, SSRIS/SNRIs) Monitor patients for bleeding who are concomtantly taking Naproxen Sodium Controlled-Release Tablets with drugs that interfere with hemostasis. Concomitant use of Naproxen Sodium Controlled-Release Tablets and analgesic doses of asprin is not generally recommended (7)
- is not generally recommended (7)

   ACE Inhibitors, Angiotensin Receptor Blockers (ARB), or Beta-Blockers: Concomitant use with Naproxen Sodium Controlled-Release Tablets and diminish the antihypertensive effect of these drugs, Monitor blood pressure (7)

   ACE Inhibitors and ARBs: Concomitant use with Naproxen Sodium Controlled-Release Tablets in elderly, volume depleted, or those with renal impartment may result in deterioration of renal function, in such high risk patients, monitor for signs of worsening renal function (7)

   Binericis: NAIDs can reduce natirureit: effect of furosemide and thiazide diuretics, Monitor patients to assure diuretic efficacy including anthypertensive effects (7)

   Bigoxitic Conomitant use with Naproxen Sodium Controlled-Release Tablets can increase serum concentration and prolong half-life of digoxin. Monitor serum digoxin levels (7)

Pregnancy: Use of NSAIDs during the third trimester of pregnancy increases the risk of premature closure of the fetal ductors arterious. Avoid use of NSAIDs in pregnant women starting a 310 weeks gestation (5.10, 8.1) Infertility: NSAIDs are associated with reversible infertility. Consider withdrawal of Naproxen Sodium Controlled-Release Tablets in women who have difficulties conceiving (8.3)

Tablets in women who have difficulties conceiving (8.3)

Revised: 4/2019

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# WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS

### Cardiovas cular Thrombotic Events

- Latunovascular Litrombotic 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 (5.1)].

  Naproxen Sodium Controlled-Release Tablets are contraindicated in the setting of coronary artery bypass graft (CABG) surgery [see Contraindications (4) and Warnings and Precautions (5.1)].

Scattointestinal Bleeding, Ulceration, and Perforation
 NSAIDs cause an increased risk of serious gastrointestinal (GI) adverse events including bleeding, ulceration, and perforation of the stomach or intestines, which can be fatal. These events can occur at any time during use and without warning symptoms. Elderly patients and patients with a prior history of peptic ulcer disease and/or GI bleeding are at greater risk for serious GI events [see Warnings and Precautions (5.2)].

### INDICATIONS AND USAGE

Naproxen Sodium Controlled-Release Tablets are indicated for the treatment of:
• rheumatoid arthritis (RA)

- · osteoarthritis (OA)

- ankylosing spondylitis (AS)
   tendinitis, bursitis
   acute gout
   primary dysmenorrhea (PD)
- the relief of mild to moderate pain

[see Warninas and Precautions (5)].

### 2 DOSAGE AND ADMINISTRATION

### 2.1. General Dosing Instructions

Carefully consider the potential benefits and risks of Naproxen Sodium Controlled-Release Tablets and other treatment options before deciding to use Naproxen Sodium Controlled-Release Tablets. Use the lowest effective dosage for the shortest duration consistent with individual patient treatment goals [see Warnings and Precautions (5)].

 $After observing the response to initial the rapy with Naproxen Sodium Controlled-Release \ Tablets, the dose and frequency should be adjusted to suit an individual patient's needs.$ 

### 2.2 Rheumatoid Arthritis, Osteoarthritis, and Ankylosing Spondylitis

The recommended starting dose of Naproxen Sodium Controlled-Release Tablets in adults is two Naproxen Sodium Controlled-Release 375 mg tablets (750 mg) once daily, one Naproxen Sodium Controlled-Release 750 mg (750 mg) once daily, or two Naproxen Sodium Controlled-Release 500 mg tablets (1,000 mg) once daily. Patients already taking naproxen 250 mg, 375 mg, or 500 mg twice daily (morring and evenits and single) my have their total daily dose replaced with Naproxen Sodium Controlled-Release Tablets and Single Mally dose.

During long-term administration, the dose of Naproxen Sodium Controlled-Release Tablets may be During long-term administration, the dose of Naproxen Sodium Controlled-Release Tablets may be adjusted up or down depending on the clinical response of the patient. In patients who tolerate lower doses of Naproxen Sodium Controlled-Release Tablets well, the dose may be increased to two Naproxen Sodium Controlled-Release 750 mg tablets (1,500 mg), or three Naproxen Sodium Controlled-Release 750 mg tablets (1,500 mg) once daily for limited periods when a higher level of anti-inflammatory/analgesic activity is required. When treating patients, especially at the higher dose levels, the physician should observe sufficient increased clinical benefit to offset the potential increased risk [see Clinical Pharmacology (12.3)]. The lowest effective dose should be sought and use in average that its functions and the patient in a rabitity in supply beging within one week-lowed. in every patient. Symptomatic improvement in arthritis usually begins within one week; however, treatment for two weeks may be required to achieve a therapeutic benefit.

# 2.3 Management of Pain, Primary Dysmenorrhea, and Acute Tendinitis and Bursitis

The recommended starting dose is two Naproxen Sodium Controlled-Release 500 mg tablets (1,000 mg) once daily. For patients requiring greater analgesic benefit, two Naproxen Sodium Controlled-Release 750 mg tablets (1,500 mg) or three Naproxen Sodium Controlled-Release 500 mg tablets (1,500 mg) may be used for a limited period. Thereafter, the total daily dose should not exceed two Naproxen Sodium Controlled-Release 500 mg tablets (1,000 mg).

The recommended dose on the first day is two to three Naproxen Sodium Controlled-Release 500~mgtablets (1,000 to 1,500 mg) once daily, followed by two Naproxen Sodium Controlled-Release 500 mg tablets (1,000 mg) once daily, until the attack has subsided.

# 2.5 Dos age Adjustments in Patients with Hepatic Impairment

A lower dose should be considered in patients with repair impairment or in elderly patients [see Warnings and Precautions (5.3)]. Studies indicate that although total plasma concentration of naproxen is unchanged, the unbound plasma fraction of naproxen is increased in the elderly. Caution is advised when high doses are required and some adjustment of dosage may be required in elderly patients. As with other drugs used in the elderly it is prudent to use the lowest effective dose.

# 3 DOSAGE FORMS AND STRENGTHS

Naproxen Sodium Controlled-Release Tablets are available as follows:

375~mg; white, capsule-shaped tablet with "N" on one side and "375" on the reverse. Each tablet contains 412.5~mg naproxen sodium equivalent to 375~mg naproxen.

# CONTRAINDICATIONS

Naproxen Sodium Controlled-Release Tablets are contraindicated in the following patients:

- Known hypersensitivity (e.g., anaphylactic reactions and serious skin reactions) to naproxen or any components of the drug product [see Warnings and Precautions (5.7, 5.9)]
- Children and uniform the state of the state
- In the setting of coronary artery bypass graft (CABG) surgery [see Warnings and Precautions (5.1)]

# WARNINGS AND PRECAUTIONS

# 5.1 Cardiovas cular 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. 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 naproxen, increases the risk of serious gastrointestinal (GI) events [see Warnings and Precautions (5.2)].

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 \ days \ following \ controlled \ for \$ 

NSAIDs are contraindicated in the setting of CABG [see Contraindications (4)].

### 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 Naproxen Sodium Controlled-Release Tablets in patients with a recent MI unless the benefits are expected to outweigh the risk of recurrent CV thrombotic events. If Naproxen Sodium Controlled-Release Tablets are used in patients with a recent MI, monitor patients for signs of cardiac

### 5.2 Gastrointestinal Bleeding, Ulceration, and Perforation

5.2 Gastrointestinal Bleeding, Utceration, and Perforation
NSAIDs, including approxen, cause serious gastrointestinal (GI) adverse
events including inflammation, bleeding, ulceration, and perforation of the
esophagius, 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
in approximately 1% of patients treated for 3 to 6 months, and in about 2% to 4% of patients treated for
one year. However, even short-term NSAID therapy is not without risk.

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

Risk Factors for GI Bleeding, Utceration, and Perforation

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. 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 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.

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

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

  Use the lowest effective dosage for the shortest possible duration.

  Avoid administration of more than one NSAID at a time.

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

  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 Naproxen Sodium Controlled-Release Tablets until a serious GI adverse event is ruled out.

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

### 5.3 Hepatotoxicity

Elevations of ALT or AST (three or more times the upper limit of normal [ULN]) have been reported in approximately 1% of NSAID-treated patients in clinical trials. In addition, rare, sometimes fatal, cases of severe hepatic injury, including fulminant hepatitis, liver necrosis, and hepatic failure have been reported.

Elevations of ALT or AST (less than three times ULN) may occur in up to 15% of patients treated with NSAIDs including naproxen.

Inform patients of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, 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 Naproxen Sodium Controlled-Release Tablets immediately, and perform a clinical evaluation of the patient.

NSAIDs, including Naproxen Sodium Controlled-Release Tablets, can lead to new onset or worsening of pre-existing hypertension, either of which may contribute to the increased incidence of CV events. Patients taking angiotensin converting enzyme (ACE) inhibitors, thiazide diuretics, or loop diuretics may have impaired response to these therapies when taking NSAIDs [see Drug Interactions (7)].

 $Monitor\ blood\ pressure\ (BP)\ during\ the\ initiation\ of\ NSAID\ treatment\ and\ throughout\ the\ course\ of\ therapy.$ 

# 5.5 Heart Failure and Edema

The Coxib and raditional 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 naproxen may blunt the CV effects of several therapeutic agents used to treat these medical conditions (e.g., diuretics, ACE inhibitors, or angiotensin receptor blockers [ARBs]) [see Drug Interactions (7)].

Avoid the use of Naproxen Sodium Controlled-Release Tablets in patients with severe heart failure unless the benefits are expected to outweigh the risk of worsening heart failure. If Naproxen Sodium Controlled-Release Tablets is used in patients with severe heart failure, monitor patients for signs of worsening heart failure.

# 5.6 Renal Toxicity and Hyperkalemia

# Renal Toxicity

Long-term administration of NSAIDs has resulted in renal papillary necrosis and other renal injury.

Renal toxicity has also been seen in patients in whom renal prosaglandins have a compensatory role in the maintenance of renal perfusion. In these patients, administration of an NSAID may cause a dose-dependent reduction in prostaglandin formation and, secondarily, in renal blood flow, which may precipitate overt renal decompensation. Patients a greatest risk of this reaction are those with impaired renal function, dehydration, hypovolemia, heart failure, liver dysfunction, those taking diureits and ACE inhibitors or ARBs, and the elderly. Discontinuation of NSAID therapy is usually followed by recovery to the pretreatment state.

No information is available from controlled clinical studies regarding the use of Naproxen Sodium Controlled-Release Tablets in patients with advanced renal disease. The renal effects of Naproxen Sodium Controlled-Release Tablets may hasten the progression of renal dysfunction in patients with preexisting renal disease.

Correct volume status in dehydrated or hypovolemic patients prior to initiating Naproxen Sodium Controlled-Release Tables. Monitor renal function in patients with renal or hepatic impairment, heart failure, dehydration, or hypovolenia during use of Naproxen Sodium Controlled-Release Tablest [see Drug Interactions (7)]. Avoid the use of Naproxen Sodium Controlled-Release Tablest [see Drug Interactions (7)]. Avoid the use of Naproxen Sodium Controlled-Release Tablest in patients with advanced renal disease unless the benefits are expected to outweigh the risk of worsening renal function if Naproxen Sodium Controlled-Release Tablest are mused in patients with advanced renal disease, monitor patients for signs of worsening renal function.

# 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 effects have been attributed to a hyporeninemic-hypoaldosteronism state.

# 5.7 Anaphylactic Reactions

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

Seek emergency help if an anaphylactic reaction occurs.

# 5.8 Exacerbation of Asthma Related to Aspirin Sensitivity

A subpopulation of patients with asthma may have aspirin-sensitive asthma which may include chronic rhinosinusitis complicated by nasal polyps; severe, potentially fatal bronchospasm; and/or intolerance to aspirin and other NSAIDs. Because cross-reactivity between aspirin and other intolerance to aspirin and other NSAIDs. Because cross-reactivity between aspirin and other NSAIDs has been reported in such aspirin-sensitive patients. Naproxen Sodium Controlled-Release Tablets are contraindicated in patients with this form of aspirin sensitivity [see Contraindications (4)]. When Naproxen Sodium Controlled-Release Tablets are used in patients with preexisting asthma (without known aspirin sensitivity), monitor patients for changes in the signs and symptoms of asthma.

### Serious Skin Reactions

NSAIDs, including naproxen can cause serious skin adverse reactions such as exfoliative dermatitis, Stevens-Johnson Syndrome (SJS), and toxic epidermal necrolysis (TEN), which can be fatal. These serious events may occur without warning. Inform patients about the signs and symptoms of serious skin reactions, and to discontinue the use of Naproxen Sodium Controlled-Release Tablets at the first appearance of skin rash or any other sign of hypersensitivity.

Naproxen sodium is contraindicated in patients with previous serious skin reactions to NSAIDs [see Contraindications (4)].

### 5.10 Premature Closure of Fetal Ductus Arteriosus

Naproxen may cause premature closure of the fetal ductus arteriosus. Avoid use of NSAIDs, including Naproxen Sodium Controlled-Release Tablets, in pregnant women starting at 30 weeks of gestation (third trimester) [see Use in Specific Populations (8.1)].

### 5.11 Hematologic Toxicity

Anemia has occurred in NSAID-treated patients. This may be due to occult or gross blood loss, fluid retention, or an incompletely described effect on erythropoiesis. If a patient treated with Naproxen Sodium-Controlled-Release Tablets has any signs or symptoms of anemia, monitor hemoglobin or

NSAIDs, including Naproxen Sodium Controlled-Release Tablets, 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 inhibitors (SSRIs) and serotonin orepinephrine reuptake inhibitors (SNRIs) may increase this risk. Monitor these patients for signs of bleeding [see Drug Interactions [7]].

### 5.12 Masking of Inflammation and Fever

The pharmacological activity of Naproxen Sodium Controlled-Release Tablets in  $reducing\ inflammation, and\ possibly\ fever,\ may\ diminish\ the\ utility\ of\ diagnostic\ signs\ in\ detecting\ infections.$ 

### 5.13 Laboratory Monitoring

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

### 6 ADVERSE REACTIONS

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

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

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

• Hepatotoxicity [see Warnings and Precautions (5.3)]

- Hypertension [see Warnings and Precautions (3.3)]
  Heart Failure and Edema [see Warnings and Precautions (5.4)]
  Renal Toxicity and Hyperkalemia [see Warnings and Precautions (5.7)]
  Anaphylactic Reactions [see Warnings and Precautions (5.7)]
  Serious Skin Reactions [see Warnings and Precautions (5.7)]

- · Hematologic Toxicity [see Warnings and Precautions (5.11)]

### 6.1 Clinical Trials Experience

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

As with all drugs in this class, the frequency and severity of adverse events depends on several factors: As with all drugs in this class, the frequency and severity of adverse events depends on several factors: the dose of the drug and duration of treatment; the age, the sex, physical condition of the patient; any concurrent medical diagnoses or individual risk factors. The following adverse reactions are divided into three parts based on frequency and whether or not the possibility exists of a causal relationship between drug usage and these adverse events. In those reactions listed as "Probable Causal Relationship" there is at least one case for each adverse reaction where there is evidence to suggest that there is a causal relationship between drug usage and the reported event. The adverse reactions reported were based on the results from two double-blind controlled clinical trials of three months duration with an additional nine month open-label extension. A total of 542 patients received Naproxen Sodium Controlled-Release Tablets either in the double-blind period or in the nine month open-label extension. Of these 542 patients, 252 received Naproxen Sodium Controlled-Release Tablets, 167 were initially treated with Naprosym\* and 143 were initially treated with Naprosym\* and 143 were initially readed with Naprosym\* and 143 were initially treated with Pacton Information of the Naproxen Sodium Controlled-Release Tablets are shown by body system. Those adverse reactions observed with Naproxen but not reported in controlled trials with Naproxen Those adverse reactions observed with naproxen but not reported in controlled trials with Naproxen Sodium Controlled-Release Tablets are *italicized*.

The most frequent adverse events from the double-blind and open-label clinical trials were headache (15%), followed by dyspepsia (14%), and flu syndrome (10%). The incidence of other adverse events occurring in 3% to 9% of the patients are marked with an asterisk.

Those reactions occurring in less than 3% of the patients are unmarked.

# Incidence greater than 1% (probable causal relationship)

Body as a Whole—Pain (back)\*, pain\*, infection\*, fever, injury (accident), asthenia, pain chest, headache (15%), flu syndrome (10%).

 $Gastro intestinal -- Nausea^*, diarrhea^*, constipation^*, abdominal pain^*, flatulence, gastritis, vomitting, dysphagia, dyspepsia (14\%), heartburn^*, stomatitis.$ 

Hematologic-Anemia, ecchymosis.

Respiratory—Pharyngitis\*, rhinitis\*, sinusitis\*, bronchitis, cough increased.

Renal-Urinary tract infection\*, cystitis.

Dermatologic-Skin rash\*, skin eruptions\*, ecchymoses\*, purpura.

Metabolic and Nutrition-Peripheral edema, hyperglycemia.

Central Nervous System—Dizziness, paresthesia, insomnia, drowsiness\*, lightheadedness.

Cardiovascular-Hypertension, edema\*, dyspnea\*, palpitations.

Musculoskeletal-Cramps (leg), myalgia, arthralgia, joint disorder, tendon disorder.

Special Senses-Tinnitus\*, hearing disturbances, visual disturbances.

General-Thirst.

# Incidence less than 1% (probable causal relationship)

Body as a Whole—Abscess, monilia, neck rigid, pain neck, abdomen enlarged, carcinoma, cellulitis, edema general, LE syndrome, malaise, mucous membrane disorder, allergic reaction, pain pelvic.

Gastrointestinal—Anorexia, cholecystitis, cholelithiasis, eructation, GI hemorrhage, rectal hemorrhage, stomatis a phtus, cnoiecystus, cholelithiasis, eructation, GI hemorrhage, rectal hemorrhage, stomatis a phtus, stomatis all ucer, ulcer mouth, ulcer stomach, periodotal abscess, cardiospasm, colitis, esophagitis, gastroenteritis, GI disorder, rectal disorder, tooth disorder, hepatosplenomegaly, liver function abnormality, melena, ulcer esophagus, hemotemesis, jaundice, poncreatitis, necrosis.

Renal—Dysmenorrhea, dysuria, kidney function abnormality, nocturia, prostate disorder, pyelonephritis, carcinoma breast, urinary incontinence, kidney calculus, kidney failure, menorrhagia, metorrhagia, neoplasm breast, nephrosclerosis, hematuria, pain kidney, pyuria, urine abnormal, urinary frequency, urinary retention, uterire spasm, vaginitis, glomerular nephritis, hyperkalemia, interstitial nephritis, nephrotic syndrome, renal disease, renal failure, renal papillary necrosis.

 $He matologic — Leukopenia, \ bleeding \ time \ increased, \ eos in ophilia, \ abnormal \ RBC, \ abnormal \ WBC, \ thrombocytopenia, \ agranulocytosis, \ granulocytopenia.$ 

Central Nervous System—Depression, anxiety, hypertonia, nervousness, neuralgia, neuritis, vertigo, annesia, confusion, co-ordination, abnormal diplopia, emotional lability, hematoma subdural, paralysis, dream abnormalities, inability to concentrate, muscle weakness.

Dermatologic: Angiodermatitis, herpes simplex, dry skin, sweating, ulcer skin, acne, alopecia, dermatitis contact, eczema, herpes zoster, nail disorder, skin necrosis, subcutaneous nodule, pruritus, urticaria, ne oplasm skin, photosensitive dermatitis, photosensitivity reactions resembling porphyria cutaneous tarda, epidermolysis bullosa.

Special Senses-Amblyopia, scleritis, cataract, conjunctivitis, deaf, ear disorder, keratoconjunctivitis, icrimation disorder, otitis media, pain eye.

Cardiovascular-Angina pectoris, coronary artery disease, myocardial infarction, deep thrombophlebitis, vasodilation, vascular anomaly, arrhythmia, bundle branch block, abnormal ECG, heart failure right, hemorrhage, migraine, aortic stenosis, syncope, tachycardia, congestive heart failure.

Respiratory—Asthma, dyspnea, lung edema, laryngitis, lung disorder, epistaxis, pneumonia, respiratory distress, respiratory disorder, eosinophilic pneumonitis.

 $Musculoskeletal \color{red} - Myasthenia, bone \ disorder, spontaneous \ bone \ fracture, \ fibrotendinitis, bone \ pain, ptosis, spasm \ general, bursitis.$ 

 $Metabolic \ and \ Nutrition — Creatinine \ increase, \ glucosuria, \ hypercholesteremia, \ albuminuria, \ alkalosis, \ a$ 

 $BUN\ increased, dehydration, edema, glucose\ tolerance\ decrease, hyperuricemia, hypokalemia, SGOT\ increase, SGPT\ increase, weight\ decrease.$ 

### Incidence less than 1% (causal relationship unknown)

Other adverse reactions listed in the naproxen package label, but not reported by those who received Naproxen Sodium Controlled-Release Tablets are shown in italics. These observations are being listed as alerting information to the physician.

Hematologic—Aplastic anemia, hemolytic anemia.

Central Nervous System—Aseptic meningitis, cognitive dysfunction.

 ${\it Gastrointestinal-Non-peptic~GI~ulceration,~ulcerative~stomatitis.}$ 

### 7 DRUG INTERACTIONS

See Table 1 for clinically significant drug interactions with naproxen.

in addition to assuring disretic efficacy including antihypertensive effects [see Warnings and Precoutions (5.6)].  Digoxin  The concomitant use of naproxen with digoxin has been reported to increase the serum concentration and prolong the half-life of digoxin.  Intervention: During concomitant use of naproxen sodium and digoxin, monitor serum digoxin levels.  Lithium  NSAIDs have produced elevations in plasma lithium levels and reductions in renal lithium clearance. The mean maintama lithium concentration increased 15%, and the renal clearance decreased by approximately 20%. This e has been attributed to NSAID inhibition of renal prostaglandin synthesis.  During concomitant use of maproxen sodium and lithium, monitor patients for signs of lithium toxicity.  Methotrexate  Concomitant use of NSAIDs and methotrexate toxicity (e.g., neutropenia, thrombocytopenia, renal dysfum renature toxicity).  During concomitant use of naproxen sodium and methotrexate, monitor patients for methotrexate toxicity.  Concomitant use of naproxen sodium and methotrexate, monitor patients for methotrexate toxicity.  Concomitant use of naproxen sodium and evclosporine may increase cyclosporine's nephrotoxicity.  Intervention: During concomitant use of naproxen sodium and evclosporine may increase cyclosporine's nephrotoxicity.  MSAIDs and Salicylates  Concomitant use of naproxen with other NSAIDs or salicylates (e.g., diffunisal, salsalate) increases the risk of GI toxicity, with little or no increase efficacy lsee Warnings and Precoutions (5.2).  Intervention:  The concomitant use of naproxen sodium and pemetrexed may increase the risk of pemetrexed.  Clinical Impact: Concomitant use of naproxen sodium and pemetrexed may increase the risk of pemetrexed.  Concomitant use of naproxen sodium and pemetrexed may increase the risk of pemetrexed.  In the absence of data regarding potential interaction between pemetrexed and NSAIDs with longer half-lives (e.g., nelloxicity, may be a perfect toxicity.  NSAIDs with short elimination half-lives			Table 1: Clinically Significant Drug Interactions with Naproxen			
**Suprosen and anticoagulaturs such as warfarin have a synergistic effect on bleeding. The concomitant use of improven and congulatural to the control of the day of path of the gold in control of the control of the control of contr	Drugs That In	terfere witl	h Hemostasis			
control and cohort epidemio logical studies showed that conconstant use of drugs that interfere with serotorian reuptale and an NSAD modernation and an NSAD modernation and an NSAD modernation and an NSAD modernation and an activation of the modernation of the		Naprox	en and anticoagulants such as warfarin have a synergistic effect on bleeding. The concomitant use of naproxen and			
intervention:  As prim  Committee transport of the committee transport of t	Clinical Impact:	control	and cohort epidemiological studies showed that concomitant use of drugs that interfere with serotonin reuptake			
Controlled clinical studies showed that the concomitant use of INSAIDs and analgesic doses of aspirin does not produce at Clinical Integrate therapeutic offect than the use of NASIDs alone, in a clinical study, the concomitant use of an NASID and aspirin with a significantly in rereased incidence of GI adverse reactions as compared to use of the NASID alone piece of the concomitant use of an NASID and aspirin with a significantly in rereased incidence of GI adverse reactions as compared to use of the NASID and possible productions.  Acter labibitures, Angieterisin Receptor Blockers, and Beta-Blockers    NASID may distribute the authoritements we effect of angiorensia converting enzyme (ACE) inhibitors, angiotensia recept blockers (ARBs), or beta-blockers (including propriazolo).    Input particular to the propriation of the propriation o	Intervention:	with antico	agulants (e.g., warfarin), antiplatelet agents (e.g., aspirin), selective serotonin reuptake inhibitors (SSRIs), and			
Clinical Impact  Clinic	Aspirin					
intervention:  of the increased risk of bleeding [see Wornings and Precoutions (S.11)].  ACE Inhibitors, Angiotensin Receptor Blackers, and Beta-Blackers  **NASIDs may diminish the antihyperensive effect of angiotensin converting enzyme (ACE) inhibitors, angiotensin receptors (ARBs), no reachioscers (including propranolol).  In panders who are elderly, volume-depliend (including propranolol).  **During conconstant use of approxen sodium and ACE-inhibitors, ARBs, or beta-blockers, monitor blood pressure to estate the consumer that the discript blood pressure is obtained.  **During conconstant use of approxen sodium and ACE-inhibitors or ARBs in patients who are elderly, volume-depliend, or consumer that the discript blood pressure is obtained.  **During conconstant use of approxen sodium and ACE-inhibitors or ARBs in patients who are elderly, volume-depleted, or have impaired rend function, morator for signs of worsening rend function psee Wornings and Precoutions when the edings are administered conconstantly, patients should be adequately hydrated. Assess rend function at the beginning of the concomitant reason and periodically thereafter.  **Directics**  Clinical Impact:  Clinical Impact:  Clinical Impact:  Directics   Clinical Impact:  National ACE   Concomitant use of naproxen sodium and digoxin, monitor patients for signs of lithium toxicity.  National ACE   Concomitant use of naproxen sodium and perspect toxicity   Concomitant use of naproxen sodium and p	Clinical Impact:	greater the associated Warnings a	rapeutic effect than the use of NSAIDs alone. In a clinical study, the concomitant use of an NSAID and aspirin was with a significantly increased incidence of GI adverse reactions as compared to use of the NSAID alone [see and Precautions (5.2)].			
NSAIDs may diminish the antihypertensive effect of angiotensin converting enzyme (ACE) inhibitors, agiotensin recept blockers (ARBs.) or beta-blockers (arms.) or beta-blockers, minitor blood pressure is obtained.  **During conconitation use of approxen sodium and ACE-inhibitors or ARBs in patients who are elderly, volume-depleted, or have impaired renal function, motion for signs of worsening renal function [see Warnings and Procountions (when these drugs are administered on commitant, yas tentes should be adequately hydrated. Assess renal function at the beginning of the conconitant treatment and periodically thereafter.  Clinical Impact:  Clinical Impact:  Clinical Impact:  The concomitant use of approxen sodium with dispositions, showed that NSAIDs reduced the artifurction of effect has been antibused to the NSAID inhibition of renal prostaglandin synthesis.  During concomitant use of maproxen sodium with disposition of renal prostaglandin synthesis.  During concomitant use of parpoxen sodium with disposition of renal prostaglandin synthesis.  During concomitant use of approxen sodium with disposition and prostaglandin synthesis.  No servention:  During concomitant use of approxen sodium and digoxii, monitor serum digoxin levels.  Clinical Impact:  Clinical Impact:  Clinical Impact:  During concomitant use of approxen sodium and digoxii, monitor serum digoxin levels.  Clinical Impact:  During concomitant use of paproxen sodium and minimal prostage and reductions in renal lithium clearance. The mean minimal lithium concentration increased 15%, and the renal clearance decreased by approximately 20%. This experiments is a second prostage of the paproxen sodium and minimal prostage of lithium toxicity.  Methotrexase  Clinical Impact:  Concomitant use of paproxen sodium and evolution may be		of the incre Naproxen s	eased risk of bleeding [see Warnings and Precautions (5.11)]. sodium is not a substitute for low dose aspirin for cardiovascular protection.			
blockers (ARBs), or beat-blockers (including propramolo).  In patients who are elderly, volume-depleted (including those on distrect therapy), or have renal impairment, co-administration of an NSAID with ACE inhibitors or ARBs may result in deterioration of renal function, including possil activate renal failure. These effects are usually reversible.  **During concomitant use of approxen sodium and ACE-inhibitors, ARBs, or beat-blockers, monitor blood pressure to ordinate.  **During concomitant use of approxen sodium and ACE-inhibitors or ARBs in patients who are elderly, volume-depleted, or have impaired renal function, monitor for signs of vorsening renal function for when the depleted, or have impaired renal function, monitor for signs of vorsening renal function at the beginning of the concomitant use of approxen sodium and ACE-inhibitors or ARBs in patients who are elderly, volume-depleted, or have impaired renal function, monitor for signs of vorsening renal function at the beginning of the concomitant use of approxens sodium with disturbers, observe patients for signs of worsening renal function at the intervention:  **During concomitant use of approxens sodium with disturbers, observe patients for signs of worsening renal function in patients of the	ACE Inhibitors	, Angiotei	nsin Receptor Blockers, and Beta-Blockers			
to ensure that the desired blood pressure is obtained.  During concominations use of naproxes nodiminand 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 Precoutions when these days are administered concominating) patients should be adequately hydrated. Assess renal function at the beginning of the concominant treatment and periodically thereafter.  Clinical Impact:  Clinical studies, as well as post-marketing observations, showed that NSAIDs reduced the naturative concominant to the NSAID inhibition of renal prostaglandin synthesis. Intervention:  During concominant use of naproxen sodium with disredicts, observe patients for signs of worsening renal function in addition in assuring disredict efficacy including antihyperential verificacy incomination and protong the half-life of digoxin.  Intervention:  During concomination of approxens odium and digoxin, monitor serum digoxin levels.  Intervention:  NSAIDs have produced elevations in plasma lithium levels and reductions in renal lithium concentration increased 15%, and the renal clearance decreased by approximately 20%. This shapes the autitation of a protong pr	Clinical Impact:	<ul> <li>In patie adminis</li> </ul>	s (ARBs), or beta-blockers (including propranolol). nts who are elderly, volume-depleted (including those on diuretic therapy), or have renal impairment, co- tration of an NSAID with ACE inhibitors or ARBs may result in deterioration of renal function, including possible			
Clinical Impact:  Clinical Impact:  During concomitant use of naproxen with digoxin has been reported to increase the serum concentration and protong the half-life of digoxin.  Clinical Impact:  During concomitant use of naproxen with digoxin has been reported to increase the serum concentration and prolong the half-life of digoxin.  During concomitant use of naproxen with digoxin has been reported to increase the serum concentration and prolong the half-life of digoxin.  Clinical Impact:  During concomitant use of naproxen with digoxin has been reported to increase the serum concentration and prolong the half-life of digoxin.  NSAIDs have produced elevations in plasma lithium levels and reductions in renal lithium clearance. The mean minimum lithium concentration increased 15%, and the renal clearance decreased by approximately 20%. This shas been attributed to NSAID lithibition of renal prostaglandin synthesis.  Intervention:  During concomitant use of paproxen sodium and digoxin, monitor serum digoxin levels.  Intervention:  During concomitant use of paproxen sodium and lithium, monitor patients for signs of lithium toxicity.  Methotrexate  Clinical Impact:  Concomitant use of NSAIDs and methotrexate toxicity (e.g., neutropenia, thrombocytopenia, renal dysfum funervention:  During concomitant use of paproxen sodium and drebiotrexate, monitor patients for methotrexate toxicity.  Cyclosporine  Clinical Impact:  Concomitant use of naproxen sodium and eyelosporine may increase cyclosporine's nephrotoxicity.  During concomitant use of naproxen sodium and eyelosporine may increase eyelosporine's nephrotoxicity.  During concomitant use of naproxen with other state toxicity (e.g., neutropenia, thrombocytopenia, promitant use of naproxen sodium and penetrexed may increase the risk of GI toxicity, with little or no increase efficacy [see Worlings and Preceations (e.g.)].  Intervention:  The concomitant use of naproxen with other NSAIDs or salicylates is not recommended.  Penetrexed  Clinical Impact:  Intervention:  Co	Intervention:	During deplete     When the second control of the second cont	re that the desired blood pressure is obtained.  concomitant use of naproxen sodium and ACE-inhibitors or ARBs in patients who are elderly, volumed, or have impaired renal function, monitor for signs of worsening renal function [see Warnings and Precautions (5.6) ness drugs are administered concomitantly, patients should be adequately hydrated. Assess renal function at the			
Clinical Impact: matriuretic effect of loop diuretics (e.g., furosemide) and thiazide diuretics in some patients. This effect has been attributed to the NSAID inhibition of real prostaglandin synthesis.  Diuring concomitant use of naproxen sodium with diuretics, observe patients for signs of worsening renal funct in addition to assuring diuretic efficacy including antihypertensive effects [see Warnings and Precautions (5.6)].  Digoxin  The concomitant use of naproxen with digoxin has been reported to increase the serum concentration and grolong the half-life of digoxin.  During concomitant use of naproxen sodium and digoxin, monitor serum digoxin levels.  Lithium  NSAIDs have produced elevations in plasma lithium levels and reductions in renal lithium concentration increased 15%, and the renal clearance decreased by approximately 20%. This e has been attributed to NSAID inhibition of renal prostaglandin synthesis.  Intervention:  During concomitant use of naproxen sodium and lithium, monitor patients for signs of lithium toxicity.  Methotrexate  Clinical Impact:  Intervention:  Concomitant use of NSAIDs and methotrexate toxicity (e.g., neutropenia, thrombocytopenia, renal dysfun furor-vention:  During concomitant use of naproxen sodium and methotrexate, monitor patients for methotrexate toxicity.  Crelsporine  Clinical Impact:  Intervention:  During concomitant use of naproxen sodium and enhotrexate, monitor patients for methotrexate toxicity.  During concomitant use of naproxen sodium and enhotrexate, monitor patients for signs of worsening renal function.  NSAIDs and Salicylates  Clinical Impact:  Concomitant use of naproxen with other NSAIDs or salicylates is not recommended.  Concomitant use of naproxen sodium and pemetrexed may increase the risk of glovacity, with little or no increa efficacy [see Warnings and Precautions (5.2)].  Intervention:  Concomitant use of naproxen sodium and pemetrexed may increase the risk of pemetrexed with a patients with renal impairment whose creatinine clearance ranges from	Diuretics					
Intervention: Indidition to assuring disrutce efficacy including antihypertensive effects [see Warnings and Precautions (5.6)].  Digoxin  Clinical Impact: Intervention: During concomitant use of naproxen with digoxin has been reported to increase the serum concentration and prolong the half-life of digoxin.  Mintervention: During concomitant use of naproxen sodium and digoxin, monitor serum digoxin levels.  Lithium  NSAIDs have produced elevations in plasma lithium levels and reductions in renal lithium clearance. The mean minimum lithium concentration increased 15%, and the renal clearance decreased by approximately 20%. This chas been attributed to NSAID lithibition of renal prostaglandin synthesis.  Intervention: During concomitant use of haproxen 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 dysfun Intervention: During concomitant use of naproxen sodium and methotrexate, monitor patients for methotrexate toxicity.  Cyclosporine  Clinical Impact: Intervention: During concomitant use of naproxen sodium and methotrexate monitor patients for methotrexate toxicity.  During concomitant use of naproxen sodium and methotrexate monitor patients for methotrexate toxicity.  Intervention: During concomitant use of naproxen sodium and methotrexate monitor patients for signs of worsening renal function.  NSAIDs and Salicylates  Concomitant use of naproxen with other NSAIDs or salicylates (e.g., diffunisal, salsalate) increases the risk of GI toxicity, with little or no increa efficacy [see Warnings and Precautions (5.2)].  Intervention:  The concomitant use of naproxen sodium and pemetrexed may increase the risk of pemetrexed-associated myelosuppression, renal, and GI toxicity (see the pemetrexed prescribing information).  During concomitant use of naproxen sodium and pemetrexed may increase the risk of pemetrexed associated myelosuppr	Clinical Impact:		natriuretic effect of loop diuretics (e.g., furosemide) and thiazide diuretics in some patients. This			
Digoxin  The concomitant use of naproxen with digoxin has been reported to increase the serum concentration and prolong the half-life of digoxin.  During concomitant use of naproxen sodium and digoxin, monitor serum digoxin levels.  Lithium  NSAIDs have produced elevations in plasma lithium levels and reductions in renal lithium clearance. The mean minimum lithium concentration increased 15%, and the renal clearance decreased by approximately 20%. This e has been attributed to NSAID inhibition of renal prostaglandin synthesis.  Intervention:  During concomitant use of naproxen sodium and lithium, monitor patients for signs of lithium toxicity.  Methotrexate  Concomitant use of NSAIDs and methotrexate toxicity (e.g., neutropenia, thrombocytopenia, renal dysfum intervention:  During concomitant use of paproxen sodium and enhotrexate, monitor patients for methotrexate toxicity.  Cvclosporine  Clinical Impact:  Concomitant use of naproxen sodium and eyclosporine may increase cyclosporine's nephrotoxicity.  Intervention:  Concomitant use of naproxen sodium and cyclosporine may increase cyclosporine's nephrotoxicity.  Intervention:  Concomitant use of naproxen with other NSAIDs or salicylates (e.g., diffunisal, salsalate) increases the risk of GI toxicity, with little or no increa efficacy Issee Warmings and Precautions (5.2.).  Intervention:  The concomitant use of naproxen sodium and pemetrexed may increase the risk of pemetrexed associated myelosuppression, renal, and GI toxicity (see the pemetrexed perscribing information).  During concomitant use of naproxen sodium and pemetrexed may increase the risk of pemetrexed and toxicity (see the pemetrexed perscribing information).  During concomitant use of naproxen sodium and pemetrexed may increase the risk of pemetrexed and two days following administration of pemetrexed and intervention:  NSAIDs with short elimination half-lives (e.g., diclofense, indomethacin) should be avoided for a period of two days before, the day of, and two days following administration of pe	Intervention:		During concomitant use of naproxen sodium with diuretics, observe patients for signs of worsening renal function,			
The concomitant use of naproxen with digoxin has been reported to increase the serum concentration and prolong the half-life of digoxin.  Intervention:  During concomitant use of naproxen sodium and digoxin, monitor serum digoxin levels.  Lithium  NSAIDs have produced elevations in plasma lithium levels and reductions in renal lithium clearance. The mean maintam lithium concentration increased 15%, and the renal clearance decreased by approximately 20%. This e has been attributed to NSAID inhibition of renal prosaglandin synthem.  Methotrexate  Clinical Impact:  Concomitant use of NSAIDs and methotrexate toxicity (e.g., neutropenia, thrombocytopenia, renal dysfum neutrorexate).  During concomitant use of naproxen sodium and methotrexate, monitor patients for methotrexate toxicity.  Cyclosporine  Clinical Impact:  Concomitant use of naproxen sodium and eyclosporine may increase cyclosporine's nephrotoxicity.  During concomitant use of naproxen sodium and eyclosporine may increase cyclosporine's nephrotoxicity.  Intervention:  Concomitant use of naproxen sodium and cyclosporine may increase cyclosporine's nephrotoxicity.  NSAIDs and Salicylates  Concomitant use of naproxen with other NSAIDs or salicylates (e.g., diffunisal, salsalate) increases the risk of GI toxicity, with little or no increase efficacy lsee Warnings and Precoutions (5.2).  Intervention:  The concomitant use of naproxen sodium and pemetrexed may increase the risk of pemetrexed.  Clinical Impact:  Concomitant use of naproxen sodium and pemetrexed may increase the risk of pemetrexed associated myelosuppression, renal, and GI toxicity (see the pemetrexed perscribing information).  During concomitant use of naproxen sodium and pemetrexed may increase the risk of pemetrexed and NSAIDs with short elimination half-lives (e.g., actio fenax, indomethacin) should be avoided for a period of two days before, the day of, and two days following administration of pemetrexed.  Intervention:  Concomitant administration of some anacids (magnesium oxide or aluminu			in addition to assuring diuretic efficacy including antihypertensive effects [see Warnings and Precautions (5.6)].			
Intervention: During concomitant use of naproxen sodium and digoxin, monitor serum digoxin levels.  Lithium  NSAIDs have produced elevations in plasma lithium levels and reductions in renal lithium clearance. The mean minimum lithium concentration increased 15%, and the renal clearance decreased by approximately 20%. This chas been attributed to NSAID inhibition of renal prostaglandin synthesis.  Intervention: During concomitant use of naproxen sodium and lithium, monitor patients for signs of lithium toxicity.  Methorexate  Clinical Impact: Concomitant use of NSAIDs and methotrexate any increase the risk for methotrexate toxicity (e.g., neuropenia, thrombocytopenia, renal dysfum Intervention: During concomitant use of naproxen sodium and rethotrexate, monitor patients for methotrexate toxicity.  Cyclosporine  Clinical Impact: Concomitant use of naproxen sodium and cyclosporine may increase cyclosporine's nephrotoxicity.  During concomitant use of naproxen sodium and cyclosporine may increase cyclosporine's nephrotoxicity.  Intervention: During concomitant use of naproxen sodium and cyclosporine may increase cyclosporine's nephrotoxicity.  SAIDs and Salicylates  Clinical Impact:  Concomitant use of naproxen with other NSAIDs or salicylates (e.g., diffunisal, salsalate) increases the risk of GI toxicity, with little or no increase efficacy [see Warmings and Precautions (5.2)].  Intervention:  The concomitant use of naproxen sodium and pemetrexed may increase the risk of pemetrexed-associated myelosuppression, renal, and GI toxicity (see the pemetrexed prescribing information).  During concomitant use of naproxen sodium and pemetrexed may increase the risk of pemetrexed-associated myelosuppression, renal, and GI toxicity (see the pemetrexed prescribing information).  During concomitant use of naproxen sodium and pemetrexed and NSAIDs with longer half-lives (e.g., melostogam, palmental interaction between pemetrexed and NSAIDs with longer half-lives (e.g., melostogam, palmental interaction between pemetrexed and N			The concomitant use of naproxen with digoxin has been reported to increase the serum concentration and			
SAIDs have produced elevations in plasma lithium levels and reductions in renal lithium clearance. The mean minimum lithium concentration increased 15%, and the renal clearance decreased by approximately 20%. This e has been attributed to NSAID inhibition of renal prostaglandin synthesis.    Intervention:	Clinical Impact:		prolong the half-life of digoxin.			
NSAIDs have produced elevations in plasma lithium levels and reductions in renal lithium clearance. The mean clinical Impact: minimum lithium concentration increased 15%, and the renal clearance decreased by approximately 20%. This e has been attributed to NSAID inhibition of renal prostaglandin synthesis.    Intervention:   During concomitant use of naproxen sodium and lithium, monitor patients for signs of lithium toxicity.			During concomitant use of naproxen sodium and digoxin, monitor serum digoxin levels.			
clinical Impact: Intervention: Intervention: During concomitant use of naproxen sodium and lithium, monitor patients for signs of lithium toxicity.  Methorrexate Concomitant use of naproxen sodium and lithium, monitor patients for signs of lithium toxicity.  Methorrexate Concomitant use of naproxen sodium and lithium, monitor patients for signs of lithium toxicity.  Concomitant use of naproxen sodium and lithium, monitor patients for signs of lithium toxicity.  Cyclosporine Cyclosporine Clinical Impact: Intervention: During concomitant use of naproxen sodium and methotrexate, monitor patients for methotrexate toxicity.  Cyclosporine Clinical Impact: Intervention: During concomitant use of naproxen sodium and methotrexate, monitor patients for methotrexate toxicity.  Cyclosporine Clinical Impact: Intervention: During concomitant use of naproxen with Clinical Impact: Oconcomitant use of naproxen with Clinical Impact: Universal of the property of the property of the patients for signs of worsening renal function.  SASIDs and Salicylates Concomitant use of naproxen with Clinical Impact: Universal of the property of the p	Lithium		NICATO- Louis and advantage is also still like in a large like in a large in a set like in a large in the second			
Clinical Impact:			minimum lithium concentration increased 15%, and the renal clearance decreased by approximately 20%. This effe has been attributed to NSAID inhibition of renal prostaglandin synthesis.			
Cinical Impact: Intervention: During concomitant use of naproxen sodium and methotrexate, monitor patients for methotrexate toxicity.  Cyclosporine Concomitant use of naproxen sodium and methotrexate, monitor patients for methotrexate toxicity.  Cyclosporine Concomitant use of naproxen sodium and cyclosporine may increase expelosporine's nephrotoxicity.  During concomitant use of naproxen sodium and cyclosporine may increase cyclosporine's nephrotoxicity.  During concomitant use of naproxen sodium and cyclosporine may increase cyclosporine's nephrotoxicity.  During concomitant use of naproxen sodium and cyclosporine may increase cyclosporine's nephrotoxicity.  NSAIDs and Salicylates  Concomitant use of naproxen with other NSAIDs of worsening renal function.  NSAIDs and Salicylates  Cinical Impact:  Intervention:  The concomitant use of naproxen with other NSAIDs or salicylates is not recommended.  Permetrexed  Clinical Impact:  Concomitant use of naproxen sodium and penetrexed may increase the risk of pemetrexed-associated myelosuppression, renal, and GI toxicity (see the pemetrexed prescribing information).  During concomitant use of naproxen sodium and penetrexed, in patients with renal impairment whose creatinine clearance ranges from 45 to 79 m.l.min, monitor for myelosuppression, renal and GI toxicity.  NSAIDs with short elimination half-lives (e.g., diclofenac, indomethacin) should be avoided for a period of two days before, the day of, and two days following administration of pemetrexed.  In the absence of data regarding potential interaction between pemetrexed and NSAIDs with longer half-lives (e.g., meloxicam, nabumetone), patients taking these  NSAIDs should interrupt dosing for at least five days before, the day of, and two days following pemetrexed administration of some antacids (magnesium oxide or aluminum hydroxide) and sucralfate can delay absorption of naproxen.  Concomitant administration of some antacids (magnesium oxide or aluminum hydroxide) and sucralfate with naproxen sodium is not recomm		tion:	During concomitant use of naproxen sodium and lithium, monitor patients for signs of lithium toxicity.			
Cyclosporine Clinical Impact: Concomitant use of naproxen sodium and cyclosporine may increase cyclosporine's nephrotoxicity. Clinical Impact: Concomitant administration of some antacids (magnesium oxide or aluminum hydroxide) and sucralfate can delay absorption of naproxen. Concomitant administration of cholestyramine can delay the absorption of naproxen. Concomitant administration of cholestyramine with naproxen sodium in not recommended. Probenecid Clinical Impact: Clinical Impact: Concomitant administration of cholestyramine can delay the absorption of naproxen. Concomitant administration of cholestyramine can delay the absorption of pagints is millared east of sparing pagints of concomitant administration of cholestyramine can delay the absorption of baserved for adjustment of dose required.  Probenecid Clinical Impact: Clinical Impact: Clinical Impact: Clinical Impact: Clinical Impact: Concomitant administration of cholestyramine can delay the absorption of naproxen. Concomitant administration of cholestyramine can delay the absorption of baserved for adjustment of dose required.	Clinical Impact:		methotrexate may increase the risk for methotrexate toxicity (e.g., neutropenia, thrombocytopenia, renal dysfunction			
Clinical Impact:  Intervention:  SAIDs and Salicylates  Concomitant use of naproxen with other NSAIDs or salicylates (e.g., diffunisal, salsalate) increases the risk of GI toxicity, with little or no increated intervention:  The concomitant use of naproxen with other NSAIDs or salicylates (e.g., diffunisal, salsalate) increases the risk of GI toxicity, with little or no increated intervention:  The concomitant use of naproxen with other NSAIDs or salicylates is not recommended.  Pemetrexed  Clinical Impact:  Clinical Impact:  Concomitant use of naproxen sodium and pemetrexed may increase the risk of pemetrexed-associated myelosuppression, renal, and GI toxicity (see the pemetrexed prescribing information).  During concomitant use of naproxen sodium and pemetrexed may increase the risk of pemetrexed-associated myelosuppression, renal, and GI toxicity (see the pemetrexed prescribing information).  During concomitant use of naproxen 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., dicloferac, indomethacin) should be avoided for a period of two days before, the day of, and two days following administration of pemetrexed.  In the absence of data regarding potential interaction between pemetrexed and NSAIDs with longer half-lives (e.g., meloxicam, nabumetone), patients taking these NSAIDs should interrupt dosing for at least five days before, the day of, and two days following pemetrexed administration of the days of			During concomitant use of naproxen sodium and methotrexate, monitor patients for methotrexate toxicity.			
Intervention:  During concomitant use of naproxen sodium and evclosporine, monitor patients for signs of worsening renal function.  NSAIDs and Salicylates  Concomitant use of naproxen with other NSAIDs or salicylates (e.g., diffunisal, salsalate) increases the risk of GI toxicity, with little or no increated ficacy [see Warnings and Precautions (5.2)].  Intervention:  The concomitant use of naproxen with other NSAIDs or salicylates is not recommended.  Pemetrexed  Clinical Impact:  Concomitant use of naproxen sodium and pemetrexed may increase the risk of pemetrexed-associated myelosuppression, renal, and GI toxicity (see the pemetrexed prescribing information).  During concomitant use of naproxen 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.  In the absence of data regarding potential interaction between pemetrexed and NSAIDs with longer half-lives (e.g., meloxicam, nabumetone), patients taking these  NSAIDs should interrupt dosing for at least five days before, the day of, and two days following pemetrexed administration.  Attacids and Sucralfate  Clinical Impact:  Intervention:  Concomitant administration of some antacids (magnesium oxide or aluminum hydroxide) and sucralfate can delay absorption of naproxen.  Concomitant administration of cholestyramine can delay the absorption of naproxen.  Intervention:  Concomitant administration of cholestyramine with naproxen sodium is not recommended.  Probenecid  Clinical Impact:  Intervention:  Probenecid of the proper of the proper of the page of the proper of the page o			Concomitant use of naproxen sodium and cyclosporine may increase cyclosporine's nephrotoxicity.			
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required.			Patients simultaneously receiving naproxen sodium and probenecid should be observed for adjustment of dose if			
Other albumin-bound drugs  Clinical Impact:  Naproxen is highly bound to plasma albumin; it thus has a theoretical potential for interaction with other albumin bound drugs to be a common to plasma planting the professional processing the processing t			Naproxen is highly bound to plasma albumin; it thus has a theoretical potential for interaction with other albumin-			
Dound drugs such as coumarin-type anticoagulants, sulphonylureas, hydantoins, other NSAIDs, and aspirin.  Patients simultaneously receiving parpoxers odium and a hydantoin, sulphonamide or sulphonylurea should be observed for adjustment of dose if required.			Patients simultaneously receiving naproxen sodium and a hydantoin, sulphonamide or sulphonylurea should be			

# Drug/Laboratory Test Interactions

Bleeding times	
Clinical Impact:	Naproxen may decrease platelet aggregation and prolong bleeding time.
Intervention:	This effect should be kept in mind when bleeding times are determined.
Porter-Silber test	
Clinical Impact:	The administration of naproxen may result in increased urinary values for 17- ketogenic steroids because of an interaction between the drug and/or its metabolites with m-di-nitrobenzene used in this assay.
T	Although 17-hydroxy-corticosteroid measurements (Porter-Silber test) do not appear to be artifactually altered, it is suggested that therapy with naproxen

	sodium be temporarily discontinued 72 hours before adrenal function tests are performed if the Porter-Silber test is to be used.
Urinary assays of	5-hydroxy indoleacetic acid (5HIAA)
	Naproxen may interfere with some urinary assays of 5-hydroxy indoleacetic acid (5HIAA).
	This effect should be kept in mind when urinary 5-hydroxy indoleacetic acid are determined.

### USE IN SPECIFIC POPULATIONS

### Pregnancy 8.1

### Risk Summary

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

There are no adequate and well-controlled studies of naproxen sodium in pregnant women.

Data from observational studies regarding potential embryofetal risks of NSAID use in women in Data from observational studies regarding potential embryofetal risks of NSAID use in women in the first or second rimesters of pregnancy are inconclusive. In the general U.S. population, all clinically recognized pregnancies, regardless of drug exposure, have a background rate of 2 to 4% for major malformations, and 15 to 20% for pregnancy loss. In aimial reproduction studies in rats, rabbit, and mice no evidence of teratogenicity or fetal harm when naproxen was administered during the period of organogenesis at doses 0.13, 0.26, and 0.6 times the maximum recommended human daily dose of 1,500 ng/day, respectively.

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 naproxen sodium resulted in increased pre- and post- implantation loss.

### Clinical Considerations

### Labor or Delivery

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

### <u>Data</u>

There is some evidence to suggest that when inhibitors of prostaglandin synthesis are used to delay preterm labor, there is an increased risk of neonatal complications such as necrotizing enterocollitis, patent ductus arteriosus, and intracranial hermorthage. Naprosen treatment given in late pregnancy to delay parturition has been associated with persistent pulmonary hypertension, renal dysfunction, and abnormal prostaglandin E levels in preterm infants. Because of the known effect of drugs of this class on the human fetal cardiovascular system (closure of the ductus arteriosus), use during third trimester should be avoided.

### Animal data

Reproduction studies have been performed in rats at 20 mg/kg/day (0.13 times the maximum recommended human daily dose of 1,500 mg/day based on body surface area comparison) rabbits at 20 mg/kg/day (0.26 times the maximum recommended human daily dose, based on body surface area comparison, and mice at 170 mg/kg/day (0.5 times the maximum recommended human daily dose based on body surface area comparison) with no evidence of impaired fertility or harm to the fetus due to the drug. 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 naproxen sodium resulted in increased pre- and post-implantation loss.

# 8.2 Lactation

### Risk Summary

The naproxen anion has been found in the milk of lactating women at a concentration of approximately 1% of that found in the plasma. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for naproxen sodium and my potential adverse effects on the breastfed infant from the naproxen sodium or from the underlying maternal condition.

# 8.3 Females and Males of Reproductive Potential

# Infertility

# Females

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

The safety and effectiveness of naproxen sodium in pediatric populations has not been established.

Elderly patients, compared to younger patients, are at greater risk for NSAID-associated serious cardiovascular, gastrointestinal, and/or renal adverse reactions. If the anticipated benefit for the elderly patient outweights these potential risks, start dosing at the low end of the dosing range, and monitor patients for adverse effects [see Warnings and Precautions (5.1, 5.2, 5.3, 5.6, 5.13)].

Naproxen and its metabolites are known to be substantially excreted by the kidney, and the risk of adverse reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, use caution in this patient population, and it may be useful to monitor renal function [see Clinical Pharmacology (12.3)]

# 10 OVERDOSAGE

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

A few patients have experienced seizures, but it is not clear whether or not these were drug-related. It is not known what dose of the drug would be life threatening.

Manage patients with symptomatic and supportive care following an NSAID overdosage. There are no specific antidotes. Hemodialysis does not decrease the plasma concentration of naproxen because of the high degree of its protein binding. Consider emesis and/or activated charcoal (60 to 100 grams in adults, 1 to 2 grams per kg of body weight in pediatric patients) and/or osmotic cathartic in symptomatic patients seen within four hours of ingestion or in patients with a large overdosage (8 to 10 times the recommended dosage). Forced diuresis, alkalinization of urine, hemodialysis, or hemoperfusion was not be safetyled as to high vorusic highlight. may not be useful due to high protein binding.

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

# 11 DESCRIPTION

Naproxen Sodium Controlled-Release Tablets is a nonsteroidal anti-inflammatory drug, available as controlled-release tablets in 375 mg strength for oral administration. The chemical name is 2-naphthaleneaccite acid, 6-methoxy-a-methyl-sodium-salt, (S). The molecular weight is 252.24. Its molecular formula is  $\text{C}_{14}\text{H}_{13}\text{NaO}_3$ , and it has the following chemical structure.



Naproxen sodium is an odorless crystalline powder, white to creamy in color. It is soluble in methanol and water. Naproxen Sodium Controlled-Release Tablets contain 412.5 mg of naproxen sodium, equivalent to 375 mg of naproxen, and 37.5 mg sodium. Each Naproxen Sodium Controlled-Release Tablet also contains the following inactive ingredients: ammoniomethacrylate copolymer Type A,

ammoniomethacrylate copolymer Type B, citric acid, crospovidone, magnesium stearate, methacrylic acid copolymer Type A, microcrystalline cellulose, povidone, and talc. The tablet coating contains hydroxypropyl methylcellulose, polyethylene glycol, and titanium dioxide.

### 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Naproxen has analgesic, anti-inflammatory, and antipyretic properties.

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

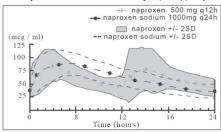
Naproxen sodium is a potent inhibitor of prostaglandin synthesis *in vitro*. Naproxen sodium concentrations reached during therapy have produced *in vivo* effects. Prostaglandins sensitize afferent nerves and potentiate the action of bradykinin in inducing pain in animal models.

Prostaglandins are mediators of inflammation. Because naproxes sodium is an inhibitor of prostaglandin synthesis, its mode of action may be due to a decrease of prostaglandins in peripheral tissues.

### 12.3 Pharmacokinetics

Although naproxen itself is well absorbed, the sodium salt form is more rapidly absorbed, resulting in higher peak plasma levels for a given dose. Approximately 30% of the total naproxen sodium dose in Naproxen Sodium Controlled-Release Tablets is present in the dosage formas an immediate release component. The remaining naproxen sodium is coated as microparticles to provide sustained release properties. After oral administration, plasma levels of naproxen are detected within 30 minutes of dosing, with peak plasma levels occurring approximately 5 hours after dosing. The observed terminal elimination half-life of naproxen from both immediate release naproxen sodium and Naproxen Sodium Controlled-Release Tablets is approximately 15 hours. Steady state levels of naproxen are achieved in 3 days and the degree of naproxen accumulation in the blood is consistent with this.

### Plas ma Naproxen Concentrations Mean of 24 Subjects (+/-2SD) (Steady State, Day 5)



Pharmacokinetic Parameters at Steady State Day 5 (Mean of 24 Subjects)

Parameter (units)		naproxen 500 mg Q12h/5 days (1000 mg)			Naproxen Sodium Controlled- Release 2 x 500 mg tablets (1000 mg) Q24h/5 days			
	Mean	SD	Range	2	Mean	SD	Range	
AUC 0-24 (mcgxh/mL)	1446	168	1167 1858		1448	145	1173 - 1774	
C <sub>max</sub> (mcg/mL)	95	13	71 - 11	17	94	13	74 - 127	
Cavg (mcg/mL)	60	7	49 - 7	7	60	6	49 - 74	
Cmin (mcg/mL)	36	9	13 - 5	1	33	7	23 - 48	
T <sub>max</sub> (hrs)	3	1	1 - 4		5	2	2-10	

### Absorption

Naproxen itself is rapidly and completely absorbed from the GI tract with an *in vivo* bioavailability of 95%. Based on the pharmacokinetic profile, the absorption phase of Naproxen Sodium Controlled-Release Tablets occurs in the first-4-6 hours after administration. This coincides with disintegration of the tablet in the stomach, the transit of the sustained release microparticles through the small intestine and into the proximal large intestine. An *in vivo* imaging study has been performed in healthy volunteers that confirms rapid disintegration of the tablet matrix and dispersion of the microparticles.

The absorption rate from the sustained release particulate component of Naproxen Sodium Controlled-Release Tablets is slower than that for conventional naproxen sodium tablets. It is this prolongation of drug ab Orphon processes that maintains plasma levels and allows for once daily dosing.

# Food Effects

No significant food effects were observed when twenty-four subjects were given a single dose of Naproxen Sodium Controlled-Release Tablets 500 mg either after an overnight fast or 30 minutes after a meal. In common with conventional naproxen and naproxen sodium formulations, food causes a slight decrease in the rate of naproxen absorption following Naproxen Sodium Controlled-Release Tablets administration.

# Distribution

Naproxen has a volume of distribution of 0.16 L/kg. At therapeutic levels, naproxen is greater than 99% albumin-bound. At doses of naproxen greater than 500 mg/day, there is a less than proportional increase in plasma levels due to an increase in clearance caused by saturation of plasma protein binding at higher doses. However the concentration of unbound naproxen continues to increase proportionally to dose. Naproxen Sodium Controlled-Release Tablets exhibit similar dose proportional characteristics.

# Elimination

# Metabolism

Naproxen is extensively metabolized to 6-0-desmethyl naproxen and both parent and metabolites do not induce metabolizing enzymes.

# Excretion

The elimination half-life of Naproxen Sodium Controlled-Release Tablets and conventional naproxen is approximately 15 hours. Steady state conditions are attained after 2 to 3 doses of Naproxen Sodium Controlled-Release Tablets. Most of the drug is excreted in the urine, primarily as unchanged naproxen (less than 196), 6-0-desmethyl naproxen (less than 196) and their glucuronide or other conjugates (66 to 92%). A small amount (<59%) of the drug is excreted in the feces. The rate of excretion has been found to coincide closely with the rate of clearance from the plasma. In patients with renal failure, metabolites may accumulate.

# Specific Populations

# Pediatric:

No pediatric studies have been performed with Naproxen Sodium Controlled-Release Tablets, thus safety of Naproxen Sodium Controlled-Release Tablets in pediatric populations has not been established.

# Hepatic Impairment

Chronic alcoholic liver disease and probably other diseases with decreased or abnormal plasma proteins (albumin) reduce the total plasma concentration of naproxen, but the plasma concentration of unbound naproxen is increased. Caution is advised when high doses are required and some adjustment of dosage may be required in these patients. It is prudent to use the lowest effective dose.

# Renal Impairment:

Naproxen pharmacokinetics have not been determined in subjects with renal insufficiency. Given that naproxen is metabolized and conjugates are primarily excreted by the kidneys, the potential exists for naproxen metabolites to accumulate in the presence of renal insufficiency. Elimination of naproxen is decreased in patients with severe renal impairment. Naproxen-containing products are not recommended for use in patients with moderate to severe and severe renal impairment (creatinine clearance <a href="Som Lymin">Som Lymin Lymi

# Drug Interaction Studies

Aspirin: When NSAIDs were administered with aspirin, the protein binding of NSAIDs were reduced, although the clearance of free NSAID was not altered. The clinical significance of this interaction is not known. See Table 1 for clinically significant drug interactions of NSAIDs with aspirin [see Drug Interactions (7)].

# 13 NONCLINICAL TOXICOLOGY

### Carcinogenesis

A two year study was performed in rats to evaluate the carcinogenic potential of naproxen at doses of 8 mg/kg/day, 16 mg/kg/day, and 24 mg/kg/day (0.05, 0.1, and 0.16 times the maximum recommended human daily dose of 1,500 mg/day based on a body surface area comparison). No evidence of tumorigenicity was found.

### Mutagenesis

Studies to evaluate the mutagenic potential of Naprosyn Suspension have not been completed

### Impairment of Fertility

Studies to evaluate the impact of naproxen on male or female fertility have not been completed.

### Rheumatoid Arthritis

The use of Naproxen Sodium Controlled-Release Tablets for the management of the signs and symptoms of rheumatoid arthritis was assessed in a 12 week double-blind, randomized, placebo, and active-controlled study in 348 patients. Two Naproxen Sodium Controlled-Release 500 mg tablets (1,000 mg) once daily and naproxen500 mg tablets twice daily (1,000 mg) were more effective than placebo. Clinical effectiveness was demonstrated at one week and continued for the duration of the study.

### Osteoarthritis

The use of Naproxen Sodium Controlled-Release Tablets for the management of the signs and symptoms of osteoarthritis of the knee was assessed in a 12 week double-blind, placebo, and active-controlled study in 347 patients. Two Naproxen Sodium Controlled-Release 500 mg tablets (1,000 mg) once daily and naproxen 500 mg tablets twice daily (1,000 mg) were more effective than placebo. Clinical effectiveness was demonstrated at one week and continued for the duration of the study.

### Analaesia

The onset of the analgesic effect of Naproxen Sodium Controlled-Release Tablets was seen within 30 minutes in a pharmacokinetic/pharmacodynamic study of patients with pain following oral surgery. In controlled clinical trials, naproxen has been used in combination with gold, D-penicillamine, methotrexate, and corticosteroids. Its use in combination with salicylate is not recommended because there is evidence that aspirin increases the rate of excretion of naproxen and data are inadequate to demostrate that naproxen and aspirin produce greater improvement over that achieved with aspirin alone. In addition, as with other NSAIDs the combination may result in higher frequency of adverse course these demostrates the single residence and the single residence of the sing events than demonstrated for either product alone.

### Special Studies

Special Studies

In a double-blind randomized, parallel group study, 19 subjects received either two Naproxen Sodium Controlled-Release 500 mg tablets (1,000 mg) once daily or naproxen500 mg tablets (1,000 mg) twice daily for 7 days. Mucosal biopsy scores and endoscopic scores were lower in the subjects who received Naproxen Sodium Controlled-Release Tablets. In another double-blind, randomized, crossover study, 23 subjects received two Naproxen Sodium Controlled-Release 500 mg tablets (1,000 mg) once daily, naproxen 500 mg tablets (1,000 mg) twice daily and appirin 650 mg four times daily (2,600 mg) for 7 days each. There were significantly fewer duodenal erosions seen with Naproxen Sodium Controlled-Release Tablets than with either naproxen or aspirin. There were significantly fewer gastric erosions with both Naproxen Sodium Controlled-Release Tablets and naproxen than with aspirin. The clinical significance of these findings is unknown.

### HOW SUPPLIED/STORAGE AND HANDLING

Naproxen sodium 375 mg are controlled-release tablets supplied as:

375 mg; white, capsule-shaped tablet with "N" on one side and "375" on the reverse; in bottles of 100; NDC 69420-1375-1. Each tablet contains 412.5 mg naproxen sodium equivalent to 375 mg naproxen.

### Storage

Store at room temperature, 20° to 25° C (68° to 77° F), excursions permitted 15° to 30° C (59° to 86° F)[see USP Controlled Room Temperature].

PHARMACIST: Dispense in a well-closed container.

### 17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide) that accompanies each prescription dispensed. Inform patients, families, or their caregivers of the following information before initiating therapy with naproxen sodium and periodically during the course of ongoing therapy.

# Cardiovascular Thrombotic Events

Advise patients to be alert for the symptoms of cardiovascular thrombotic events, including chest pain, shortness of breath, weakness, or slurring of speech, and to report any of these symptoms to their health care provider immediately [see Warnings and Precautions (5.1)].

# Gastrointestinal Bleeding, Ulceration, and Perforation

Naproxen sodium, 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. 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 GI bleeding [see Warnings and Precautions (5.2)].

# Hepatotoxicity

Inform patients of the warning signs and symptoms inform patents of un warming signs and symptoms of hepatotoxicity (e.g., nauses, faigue, lethargy, pruritus, diarrhea, jaundice, right upper quadrant tenderness, and "llu-like" symptoms). If these occur, instruct patients to stop naproxen sodium and seek immediate medical therapy [see Warnings and Precoutions (5.3)].

# Heart Failure and Edema

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

# Anaphylactic Reactions

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

# Serious Skin Reactions

Naproxen sodium, like other NSAIDs, can cause serious skin side effects such as exfoliative dermatitis, SIS, and TEN, which may result in hospitalization and even death. Advise patients to stop naproxen sodium immediately if they develop any type of rash and to contact their healthcare provider as soon as possible [see Warnings and Precautions (5.9)].

# Female Fertility

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

Inform pregnant women to avoid use of naproxen sodium and other NSAIDs starting at 30 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)].

# Avoid Concomitant Use of NSAIDs

Inform patients that the concomitant use of naproxen sodium with other NSAIDs or salicylates (e.g., diflunisal, salsalate) is not recommended due to the increased risk of gastrointestinal toxicity, and little or no increase in efficacy [see Warnings and Precautions (7). Alert patients that NSAIDs may be present in "over the counter" medications for treatment of colds, fever, or insomnia.

# Use of NSAIDS and Low-Dose Aspirin

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

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Manufactured for:

SA3, LLC

Los Angeles, CA 90064

PI1375-00

Rev. 04/2019

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:

Only the increased risk of a heart attack or stroke that can lead to death. This risk may happen early in treatment and may increase: 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 o without warning symptom o 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 or laking medicines called "corticosteroids", "anticoagulants", "SSRIs", or "SNRIs" o increasing doses of NSAIDs o poor health
o advanced liver disease longer use of NSAIDs smoking drinking alcohol o bleeding problems NSAIDs should only be used: exactly as prescribed at the lowest dose possible for your treatment of the shortest time needed.

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. Talk to your healthcare provider if you are considering taking NSAIDs during pregnancy. You should not take NSAIDs after 29 weeks of pregnancy.
 are breastfeeding or plan to breast feed. Tell your healthcare provider about all of the medicines you take, including prescription or overthe-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 · swelling of the face or throat chest pain weakness in one part or side of your body Stop taking your NSAID and call your healthcare provider right away if you get any of the following symptoms: · vomit blood nausea more tired or weaker than usual · there is blood in your bowel movement or it is black and sticky like tar • unusual weight gain skin rash or blisters with fever itching your skin or eyes look yellow indigestion or stomach pain flu-like symptoms · 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

Appirin 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. For more information, call 1-888-495-6078 PL1375-00 This Medication Guide has been approved by the U.S. Food and Drug Administration. Rev. 04/2019 PRINCIPAL DISPLAY PANEL NDC 69420-1375-1 Naproxen Sodium Controlled-Release Tablets 375 mg Rx Only 100 Tablets



NAPROXEN SODIUM naproxen sodium tablet, film o	=			
Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (S	Source) NI	C:69420-1375
Route of Administration	ORAL			
Active Ingredient/Active	Moiety			
	Ingredient Name		Basis of Streng	gth Strengt
NAPROXEN SODIUM (UNII: 9 TN	87S3A3C) (NAPROXEN - UNII:57Y76R9ATQ)		NAPRO XEN	375 mg
Inactive Ingredients				
	Ingredient Name			Strengtl
AMMO NIO METHACRYLATE C	OPOLYMER TYPE A (UNII: 8GQS4E66YY)			
AMMO NIO METHACRYLATE C	OPOLYMER TYPE B (UNII: 161H3B14U2)			
CITRIC ACID MO NO HYDRATE	(UNII: 2968PHW8QP)			
CROSPO VIDO NE (15 MPA.S AT	59G) (LINII- 6840 1960 MK)			

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			JE I MEK (1.1) (C	NII. 74G4K01FH3)		
		.ULOSE (UNII: OP1R32D61U)				
PO VIDONE, UNSP		UNII: FZ989GH94E)				
TALC (UNII: 7SEV)						
		FIED (UNII: 3NXW29V3WO)				
		UNSPECIFIED (UNII: 3WJQ0S	DW1A)			
TITANIUM DIO XII	E (UNII: 1	SFIX9 V2JP)				
Product Chara	cteristic	s				
Color		WHITE	Score		no score	
Shape		CAPSULE	Size		15mm	
Flavor			Imprint Code		N;375	
Contains						
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# Item Code 1 NDC:69420-1375	nforma	1 BOTTLE; Type 0: Not a Com	bination Product	05/01/2019		

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Revised: 4/2019 SA3, LLC