

9.125"

17.0" W

.625" .625"

6.625"

Width: 17.0"
Length: 18.75"
Fold: 1.25" x 1.25"

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

NAPROXEN tablets, for oral use
Initial U.S. Approval: 1976

WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS
See full prescribing information for complete boxed warning.
• Nonsteroidal anti-inflammatory drugs (NSAIDs) cause an increased risk of serious cardiovascular 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 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. Elderly patients and patients with a prior history of peptic ulcer disease and/or GI bleeding are at greater risk for serious GI events. (5.2)

RECENT MAJOR CHANGES
Warnings and Precautions (5.9) 11/2024

INDICATIONS AND USAGE
Naproxen tablets are non-steroidal anti-inflammatory drugs indicated for:

- the relief of the signs and symptoms of:
• rheumatoid arthritis
• osteoarthritis
• ankylosing spondylitis
• polyarticular juvenile idiopathic arthritis
• tendonitis
• bursitis
• acute gout

- the management of:
• pain
• primary dysmenorrhea

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

Table with 3 columns: Indication, Dosage, Frequency. Rows for naproxen tablets (250 mg, 375 mg, 500 mg) and naproxen sodium tablets (250 mg, 375 mg, 500 mg).

The dose may be adjusted up or down depending on the clinical response of the patient. In patients who tolerate lower doses well, the dose may be increased to naproxen 1,500 mg/day for up to 6 months.

Polyarticular Juvenile Idiopathic Arthritis
Naproxen tablets may not allow for the flexible dose titration needed in pediatric patients with polyarticular juvenile idiopathic arthritis. A liquid formulation may be more appropriate. Recommended total daily dose of naproxen is approximately 10 mg/kg given in 2 divided doses. Dosing with naproxen tablets is not appropriate for children weighing less than 50 kilograms.

Acute Gout
Recommended starting dose 750 mg of naproxen tablets followed by 250 mg every 8 hours until the attack has subsided.

DOSEAGE FORMS AND STRENGTHS
Naproxen tablets: 250 mg, 375 mg and 500 mg (3)

CONTRAINDICATIONS
• Known hypersensitivity to naproxen or any component of the drug product (4)
• History of asthma, urticaria, or other allergic-type reactions after taking aspirin or other NSAIDs (4)
• In the setting of CABG surgery (4)

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WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS
Cardiovascular Thrombotic Events
• Nonsteroidal anti-inflammatory drugs (NSAIDs) cause an increased risk of serious cardiovascular thrombotic events, including myocardial infarction and stroke, which can be fatal. This risk may occur early in treatment and may increase with duration of use. (See Warnings and Precautions (5.1)).
• Naproxen tablets are contraindicated in the setting of coronary artery bypass graft (CABG) surgery [see Contraindications (4), Warnings and Precautions (5.1)].

1 INDICATIONS AND USAGE
Naproxen tablets are indicated for:
the relief of the signs and symptoms of:
• rheumatoid arthritis
• osteoarthritis
• ankylosing spondylitis
• Polyarticular Juvenile Idiopathic Arthritis
• tendonitis
• bursitis
• acute gout
the management of:
• pain
• primary dysmenorrhea
2 DOSAGE AND ADMINISTRATION
2.1 General Dosing Instructions
Carefully consider the potential benefits and risks of naproxen tablets and other treatment options before deciding to use naproxen tablets. Use the lowest effective dose for the shortest duration consistent with individual patient treatment goals [see Warnings and Precautions (5)].
After observing the response to initial therapy with naproxen tablets, the dose and frequency should be adjusted to suit an individual patient's needs.
Naproxen-containing products such as naproxen tablets and other naproxen products should not be used concomitantly since they all circulate in the plasma as the naproxen anion.
2.2 Rheumatoid Arthritis, Osteoarthritis and Ankylosing Spondylitis
The recommended dosages of naproxen tablets are shown in Table 1.
Table 1: Recommended dosages for Naproxen Tablets

Table with 3 columns: Indication, Dosage, Frequency. Rows for Naproxen Tablets (250 mg, 375 mg, 500 mg) and Naproxen Sodium Tablets (250 mg, 375 mg, 500 mg).

During long-term administration, the dose of naproxen may be adjusted up or down depending on the clinical response of the patient. A lower daily dose may suffice for long-term administration.
The morning and evening doses do not have to be equal in size and administration of the drug more frequently than twice daily does not generally make a difference in response.
In patients who tolerate lower doses well, the dose may be increased to naproxen 1,500 mg per day for limited periods of up to 6 months when a higher level of anti-inflammatory/analgesic activity is required. When treating such patients with naproxen 1,500 mg per day, the physician should observe sufficient increased clinical benefits to offset the potential increased risk.
2.3 Polyarticular Juvenile Idiopathic Arthritis
Naproxen solid-oral dosage forms may not allow for the flexible dose titration needed in pediatric patients with polyarticular juvenile idiopathic arthritis. A liquid formulation may be more appropriate for weight-based dosing and due to the need for dose flexibility in children.
In pediatric patients, doses of 5 mg/kg/day produced plasma levels of naproxen similar to those seen in adults taking 500 mg of naproxen [see Clinical Pharmacology (12)]. The recommended total daily dose of naproxen is approximately 10 mg/kg given in 2 divided doses. Dosing with naproxen tablets is not appropriate for children weighing less than 50 kilograms.
2.4 Management of Pain, Primary Dysmenorrhea, and Acute Tendonitis and Bursitis
The recommended starting dose of naproxen tablets is 500 mg followed by 250 mg (one half of a 500 mg naproxen tablet) every 6-8 hours as required. The total daily dose should not exceed 1,250 mg of naproxen.

WARNINGS AND PRECAUTIONS
Hepatotoxicity: Inform patients of warning signs and symptoms of hepatotoxicity. Discontinue if abnormal liver tests persist or worsen or if clinical signs and symptoms of liver disease develop. (5.3)
• Avoid use in patients at high 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 adverse event is suspected, promptly initiate evaluation and treatment, and discontinue naproxen 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)].

Hypertension: Patients taking some antihypertensive medications may have impaired response to these therapies when taking NSAIDs. Monitor blood pressure. (5.4, 7)
Heart Failure and Edema: Avoid use of naproxen tablets in patients with severe heart failure unless benefits are expected to outweigh risk of worsening heart failure. (5.5)
Renal Toxicity: Monitor renal function in patients with renal or hepatic impairment, heart failure, dehydration, or hypovolemia. Avoid use of naproxen tablets in patients with advanced renal disease unless benefits are expected to outweigh risk of worsening renal function. (5.6)
Anaphylactic Reactions: Seek emergency help if an anaphylactic reaction occurs. (5.7)

Exacerbation of Asthma Related to Aspirin Sensitivity: Naproxen tablets are contraindicated in patients with aspirin-sensitive asthma. Monitor patients with preexisting asthma (without aspirin sensitivity). (5.8)
Serious Skin Reactions: Discontinue naproxen tablets at first appearance of skin rash or other signs of hypersensitivity. (5.9)
Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS): Discontinue and evaluate clinically (5.10).
Fetal Toxicity: Limit use of NSAIDs, including naproxen tablets, between about 20 to 30 weeks in pregnancy due to the risk of oligohydramnios/fetal dysfunction. Avoid use of NSAIDs in women at about 30 weeks gestation and later in pregnancy due to the risks of oligohydramnios/fetal renal dysfunction and premature closure of the fetal ductus arteriosus. (5.11, 8.1)

Hematologic Toxicity: Monitor hemoglobin or hematocrit in patients with any signs or symptoms of anemia. (5.12, 7)
Most common adverse reactions to naproxen were dyspepsia, abdominal pain, nausea, headache, rash, ecchymosis, and edema. (6.1)
To report SUSPECTED ADVERSE REACTIONS, contact SciGen Pharmaceuticals, Inc. at 1-855-724-3436 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS
Drugs that Interfere with Hemostasis (e.g., warfarin, aspirin, SSRIs/SNRIs):
• Monitor patients for bleeding who are concomitantly taking naproxen tablets with drugs that interfere with hemostasis. Concomitant use of naproxen tablets and analgesic doses of aspirin is not generally recommended. (7)
ACE Inhibitors, Angiotensin Receptor Blockers (ARB), or Beta-Blockers: Concomitant use with naproxen tablets may diminish the antihypertensive effect of these drugs. Monitor blood pressure. (7)
ACE Inhibitors and ARBs: Concomitant use with naproxen tablets in elderly, volume depleted, or those with renal impairment may result in deterioration of renal function. In such high risk patients, monitor for signs of worsening renal function. (7)
Diuretics: NSAIDs can reduce natriuretic effect of furosemide and thiazide diuretics. Monitor patients to assure diuretic efficacy including antihypertensive effects. (7)
Digoxin: Concomitant use with naproxen tablets can increase serum concentration and prolong half-life of digoxin. Monitor serum digoxin levels. (7)

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Digoxin: Concomitant use with naproxen tablets can increase serum concentration and prolong half-life of digoxin. Monitor serum digoxin levels. (7)

USE IN SPECIFIC POPULATIONS
Infertility: NSAIDs are associated with reversible infertility. Consider withdrawal of naproxen tablets in women who have difficulties conceiving. (8.3)
Renal Impairment: Naproxen-containing products are not recommended for use in patients with moderate to severe and severe renal impairment (creatinine clearance <30 mL/min). (8.7)
See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

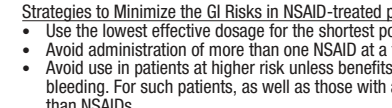
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HOW SUPPLIED/STORAGE AND HANDLING
17 PATIENT COUNSELING INFORMATION
*Sections or subsections omitted from the full prescribing information are not listed.

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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 high 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 adverse event is suspected, promptly initiate evaluation and treatment, and discontinue naproxen 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)].

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 tablets immediately, and perform a clinical evaluation of the patient.

Hypertension
NSAIDs, including naproxen tablets can lead to new onset of hypertension or worsening of pre-existing hypertension, either of which may contribute to the increased incidence of CV events. Patients taking antihypertensive medication (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.

Heart Failure and Edema
NSAIDs, including naproxen tablets can lead to new onset of heart failure or worsening of pre-existing heart failure, either of which may contribute to the increased incidence of CV events. Patients taking diuretics, ACE inhibitors, or angiotensin receptor blockers (ARBs) [see Drug Interactions (7)].
Avoid use in patients at high risk unless benefits are expected to outweigh the risk of worsening heart failure. If naproxen tablets are used in patients with severe heart failure, monitor patients for signs of worsening heart failure.

Renal Toxicity and Hyperkalemia
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. NSAIDs can also cause fixed drug eruption (FDE). FDE may present as a more severe variant known as generalized bullous fixed drug eruption (GBFDE), which can be life-threatening. These serious events may occur without warning. Inform patients about the signs and symptoms of serious skin reactions, and to discontinue use of naproxen tablets at the first appearance of skin rash or any other sign of hypersensitivity. Naproxen tablets are contraindicated in patients with previous serious skin reactions to NSAIDs [see Contraindications (4)].

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

Fetal Toxicity
Premature Closure of Fetal Ductus Arteriosus
Avoid use of NSAIDs, including naproxen tablets in pregnant women at about 30 weeks of gestation and later. NSAIDs, including naproxen tablets increase the risk of premature closure of the fetal ductus arteriosus at approximately this gestational age.
Oligohydramnios/Neonatal Renal Impairment
Use of NSAIDs, including naproxen tablets, at about 20 weeks gestation or later in pregnancy may cause fetal renal dysfunction leading to oligohydramnios and, in some cases, neonatal renal impairment. These adverse outcomes are particularly likely if treatment extends for days to weeks of treatment, although oligohydramnios has been infrequently reported as soon as 48 hours after NSAID initiation. Oligohydramnios is often, but not always, reversible with treatment discontinuation. Complications of prolonged oligohydramnios may, for example, include limb contractures and delayed lung maturation. In some postmarketing cases of impaired neonatal renal function, renal replacement therapy was necessary.
If NSAID treatment is necessary between about 20 weeks and 30 weeks gestation, limit naproxen tablets use to the lowest effective dose and shortest duration possible. Consider ultrasound monitoring of amniotic fluid if naproxen treatment extends beyond 48 hours. Discontinue naproxen tablets if oligohydramnios occurs and follow up according to clinical practice [see Use in Specific Populations (8.1)].

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 tablets has any signs or symptoms of anemia, monitor hemoglobin or hematocrit.
NSAIDs, including naproxen tablets may increase the risk of bleeding events. Co-morbid conditions such as coagulation disorders or concomitant use of warfarin and other anticoagulants, antiplatelet agents (e.g., aspirin), serotonin reuptake inhibitors (SSRIs), and serotonin norepinephrine reuptake inhibitors (SNRIs) may increase this risk. Monitor these patients for signs of bleeding [see Drug Interactions (7)].

Masking of Inflammation and Fever
The pharmacological activity of naproxen tablets in reducing inflammation, and possibly fever, may diminish the utility of diagnostic signs in detecting infections.

Long-Term Use and Laboratory Monitoring
Because of the potential for serious adverse events, including 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 (5.2.3, 5.6)].
Patients with initial hemoglobin values of 10g or less who are to receive long-term therapy should have hemoglobin values determined periodically.
Because of adverse eye findings in animal studies with drugs of this class, it is recommended that ophthalmic studies be carried out if any change or disturbance in vision occurs.

ADVERSE REACTIONS
In 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 (5.4)]
• Heart Failure and Edema [see Warnings and Precautions (5.5)]
• Renal Toxicity and Hyperkalemia [see Warnings and Precautions (5.6)]
• Anaphylactic Reactions [see Warnings and Precautions (5.7)]
• Serious Skin Reactions [see Warnings and Precautions (5.9)]
• Hematologic Toxicity [see Warnings and Precautions (5.12)]

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.
Adverse reactions reported in controlled clinical trials in 960 patients treated for rheumatoid arthritis or osteoarthritis are listed below. In general, reactions in patients treated chronically were reported 2 to 10 times more frequently than they were in short-term studies in the 962 patients treated for mild to moderate pain or for dysmenorrhea. The most frequent complaints reported related to the gastrointestinal tract.
A clinical study found gastrointestinal reactions to be more frequent and more severe in rheumatoid arthritis patients taking daily doses of 1,500 mg naproxen compared to those taking 750 mg naproxen.
In controlled clinical trials with about 80 pediatric patients and in well-monitored, open-label studies with about 400 pediatric patients with polyarticular juvenile idiopathic arthritis treated with naproxen, the incidence of rash and prolonged bleeding times were greater, the incidence of gastrointestinal and central nervous system reactions were about the same, and the incidence of other reactions were lower in pediatric patients than in adults.

Patients taking naproxen in clinical trials, the most frequently reported adverse experiences in approximately 1% to 10% of patients were:
Gastrointestinal (GI) Experiences, including: heartburn, abdominal pain, nausea, constipation, diarrhea, dyspepsia, stomatitis
Central Nervous System: headache, dizziness, drowsiness, lightheadedness, vertigo
Dermatologic: pruritus (itching), skin eruptions, ecchymoses, sweating, purpura
Special Senses: tinnitus, visual disturbances, hearing disturbances
Cardiovascular: edema, palpitations
Respiratory: dyspnea, rhinitis
Incidence of reported reaction between 3% and 9%. Those reactions occurring in less than 3% of the patients are unmarked.

In patients taking NSAIDs, the following adverse experiences have also been reported in approximately 1% to 10% of patients.
Gastrointestinal (GI) Experiences, including: flatulence, gross bleeding/perforation, GI ulcers (gastric/duodenal), vomiting
General: abnormal renal function, anemia, elevated liver enzymes, increased bleeding time, rashes
The following are additional adverse experiences reported in <1% of patients taking naproxen during clinical trials.
Gastrointestinal (GI) Experiences, including: flatulence, gross bleeding/perforation, GI ulcers (gastric/duodenal), vomiting
Hepatic: jaundice
Hemic and Lymphatic: melena, thrombocytopenia, agranulocytosis
Nervous System: inability to concentrate

Cardiovascular: congestive heart failure, vasculitis, hypertension, pulmonary edema
Gastrointestinal: inflammatory bleeding (sometimes fatal, particularly in the elderly), ulceration, perforation and obstruction of the upper or lower gastrointestinal tract. Esophagitis, stomatitis, hematemesis, colitis, exacerbation of inflammatory bowel disease (ulcerative colitis, Crohn's disease).
Hepatobiliary: abnormal liver function tests, hepatitis (some cases have been fatal)
Hemic and Lymphatic: eosinophilia, leukopenia, granulocytopenia, hemolytic anemia, aplastic anemia
Metabolic and Nutritional: hyperglycemia, hypoglycemia
Nervous System: depression, dream abnormalities, insomnia, malaise, myalgia, muscle weakness, aseptic meningitis, cognitive dysfunction, convulsions
Respiratory: eosinophilic pneumonitis, asthma
Dermatologic: alopecia, urticaria, toxic epidermal necrolysis, erythema multiforme, erythema nodosum, lichen planus, pustular reaction, systemic lupus erythematosus, bullous reactions, including Stevens-Johnson syndrome, fixed drug eruption (FDE), photosensitive dermatitis, photosensitivity reactions, including rare cases resembling porphyria cutanea tarda (pseudoporphyria) or epidermolysis bullosa. If skin fragility, blistering or other symptoms suggestive of pseudoporphyria occur, treatment should be discontinued and the patient monitored.
Special Senses: hearing impairment, corneal opacity, papillitis, retrobulbar optic neuritis, papilledema
Urogenital: glomerular nephritis, hematuria, hyperkalemia, interstitial nephritis, nephrotic syndrome, renal disease, renal failure, renal papillary necrosis, raised serum creatinine
Reproduction (female): infertility
In patients taking NSAIDs, the following adverse experiences have also been reported in <1% of patients.
Body as a Whole: fever, infection, sepsis, anaphylactic reactions, apopleptic changes, death
Cardiovascular: hypertension, tachycardia, syncope, arrhythmia, hypotension, myocardial infarction
Gastrointestinal: dry mouth, esophagitis, gastric/peptic ulcers, gastritis, glossitis, eructation
Hepatobiliary: hepatitis, liver failure
Hemic and Lymphatic: rectal bleeding, lymphadenopathy, pancytopenia
Metabolic and Nutritional: weight changes
Nervous System: anxiety, asthenia, confusion, nervousness, paresthesia, somnolence, tremors, convulsions, coma, hallucinations
Respiratory: asthma, respiratory depression, pneumonia
Dermatologic: exfoliative dermatitis
Special Senses: blurred vision, conjunctivitis
Urogenital: cystitis, dysuria, oliguria/polyuria, proteinuria

7 DRUG INTERACTIONS
See Table 1 for clinically significant drug interactions with naproxen.

Table 1: Clinically Significant Drug Interactions with naproxen

Drugs That Interfere with Hemostasis
Clinical Impact:
• Naproxen and anticoagulants such as warfarin have a synergistic effect on bleeding. The concomitant use of naproxen and anticoagulants has an increased risk of serious bleeding compared to the use of either drug alone.
• Serotonin release by platelets plays an important role in hemostasis. Case-control and cohort epidemiological studies showed that concomitant use of drugs that interfere with serotonin reuptake and an NSAID may potentiate the risk of bleeding more than an NSAID alone.

Intervention:
Monitor patients with concomitant use of naproxen tablets and anticoagulants (e.g., warfarin, antiplatelet agents (e.g., aspirin), selective serotonin reuptake inhibitors (SSRIs), and serotonin norepinephrine reuptake inhibitors (SNRIs)) for signs of bleeding [see Warnings and Precautions (5.12)].
Aspirin
Clinical Impact:
A pharmacodynamic (PD) study has demonstrated an interaction in which lower dose naproxen (220mg/day or 220mg twice daily) interfered with the antiplatelet effect of aspirin. The interaction was more pronounced with the aspirin dose most marked during the washout period of naproxen (see 12.2 Pharmacodynamics). There is reason to expect that the interaction would be present with prescription doses of naproxen or with enteric-coated low-dose aspirin; however, the peak interference with aspirin function may be later than observed in the PD study due to the longer washout period.
Controlled clinical studies showed that the concomitant use of NSAIDs and analgesic doses of aspirin does not produce any greater therapeutic effect than the use of NSAIDs alone. In a clinical study, the concomitant use of an NSAID and aspirin was associated with a significantly increased incidence of GI adverse reactions as compared to use of the NSAID alone [see Warnings and Precautions (5.2)].

Intervention:
Because there may be an increased risk of cardiovascular events following discontinuation of naproxen due to the interference with the antiplatelet effect of aspirin during the washout period, for patients taking low-dose aspirin for cardioprotection who require intermittent analgesia, consider use of an NSAID that does not interfere with the antiplatelet effect of aspirin, or non-NSAID analgesics where appropriate.
Concomitant use of naproxen tablets and analgesic doses of aspirin is not generally recommended because of the increased risk of bleeding [see Warnings and Precautions (5.12)].
Naproxen tablets are not substitutes for low dose aspirin for cardiovascular protection.

ACE Inhibitors, Angiotensin Receptor Blockers, and Beta-Blockers
Clinical Impact:
• NSAIDs may diminish the antihypertensive effect of angiotensin converting enzyme (ACE) inhibitors, angiotensin receptor blockers (ARBs), or beta-blockers (including propranolol).
In patients who are elderly, volume-depleted (including those on diuretic therapy), or have renal impairment, co-administration of an NSAID with ACE inhibitors or ARBs may result in deterioration of renal function, including possible acute renal failure. These effects are usually reversible.

Intervention:
During concomitant use of naproxen tablets and ACE-inhibitors, ARBs, or beta-blockers, monitor blood pressure to ensure that the desired blood pressure is obtained.
During concomitant use of naproxen tablets and ACE-inhibitors or ARBs in patients who are elderly, volume-depleted, or have impaired renal function, monitor for signs of worsening renal function [see Warnings and Precautions (5.6)].
When these drugs are administered concomitantly, patients should be adequately hydrated. Assess renal function at the beginning of the concomitant treatment and periodically thereafter.

Diuretics
Clinical Impact:
Clinical studies, as well as post-marketing observations, showed that NSAIDs reduced the natriuretic effect of loop diuretics (e.g., furosemide) and thiazide diuretics in some patients. This effect has been attributed to the NSAID inhibition of renal prostaglandin synthesis.

Intervention:
During concomitant use of naproxen tablets with diuretics, observe patients for signs of worsening renal function, in addition to assuring diuretic efficacy including antihypertensive effects [see Warnings and Precautions (5.6)].
Digoxin
Clinical Impact:
The concomitant use of naproxen with digoxin has been reported to increase the serum concentration and prolong the half-life of digoxin.

Intervention:
During concomitant use of naproxen tablets and digoxin, monitor serum digoxin levels.
Lithium
Clinical Impact:
NSAIDs have produced elevations in plasma lithium levels and reductions in renal lithium clearance. The mean minimum lithium concentration increased 15%, and the renal clearance decreased by approximately 20%. This effect has been attributed to NSAID inhibition of renal prostaglandin synthesis.

Intervention:
During concomitant use of naproxen tablets and lithium, monitor patients for signs of lithium toxicity.
Methotrexate
Clinical Impact:
Concomitant use of NSAIDs and methotrexate may increase the risk for methotrexate toxicity (e.g., neutropenia, thrombocytopenia, renal dysfunction).

Intervention:
During concomitant use of naproxen tablets and methotrexate, monitor patients for methotrexate toxicity.
Cyclosporine
Clinical Impact:
Concomitant use of naproxen tablets and cyclosporine may increase cyclosporine's nephrotoxicity.

Intervention:
During concomitant use of naproxen tablets and cyclosporine, monitor patients for signs of worsening renal function.
NSAIDs and Salicylates
Clinical Impact:
Concomitant use of naproxen with other NSAIDs or salicylates (e.g., diflunisal, salsalate) increases the risk of GI toxicity, with little or no increase in efficacy [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 tablets and pemetrexed may increase the risk of pemetrexed-associated myelosuppression, renal, and GI toxicity (see the pemetrexed prescribing information).

Intervention:
During concomitant use of naproxen tablets and pemetrexed, in patients with renal impairment whose creatinine clearance ranges from 45 mL/min 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 and suralates can delay the absorption of naproxen.
NSAIDs should interrupt dosing for at least five days before, the day of, and two days following pemetrexed administration.

Antacids and Sucralfate
Clinical Impact:
Concomitant administration of some antacids (magnesium oxide or aluminum hydroxide) and sucralfate can delay the absorption of naproxen.

Intervention:
Concomitant administration of antacids such as magnesium oxide or aluminum hydroxide, and sucralfate with naproxen tablets is not recommended.
Cholestyramine
Clinical Impact:
Concomitant administration of cholestyramine can delay the absorption of naproxen.

Intervention:
Concomitant administration of cholestyramine with naproxen tablets is not recommended.
Probenecid
Clinical Impact:
Probenecid given concurrently increases naproxen anion plasma levels and extends its plasma half-life significantly.

Intervention:
Patients simultaneously receiving naproxen tablets and probenecid should be observed for adjustment of dose if required.

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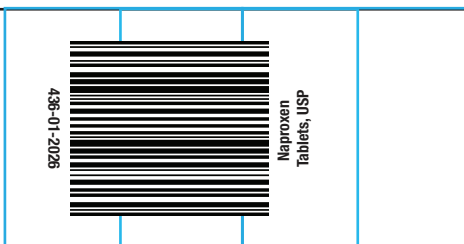
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1.25" H x 1.25" W

Table 1 continued

Table with 2 columns: Clinical Impact, Intervention. Rows include Other albumin-bound drugs, Clinical Impact, and Intervention.

Drug/Laboratory Test Interactions

Table with 2 columns: Clinical Impact, Intervention. Rows include Bleeding times, Porter-Silber test, and Urinary assays of 5-hydroxy indoleacetic acid (5HIAA).

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy
Risk Summary
Use of NSAIDs, including naproxen tablets can cause premature closure of the fetal ductus arteriosus and fetal renal dysfunction leading to oligohydramnios and, in some cases, neonatal renal impairment.

8.2 Lactation
The naproxen anion has been found in the milk of lactating women at a concentration equivalent to approximately 1% of maximum naproxen concentration in plasma.

8.3 Females and Males of Reproductive Potential
Infertility
Based on the mechanism of action, the use of prostaglandin-mediated NSAIDs, including naproxen tablets, may delay or prevent rupture of ovarian follicles, which has been associated with reversible infertility in some women.

8.4 Pediatric Use
Safety and effectiveness in pediatric patients below the age of 2 years have not been established. Pediatric dosing recommendations for polyarthral juvenile idiopathic arthritis are based on well-controlled studies.

8.5 Geriatric Use
The hepatic and renal tolerability of long-term naproxen administration was studied in two double-blind clinical trials involving 586 patients.

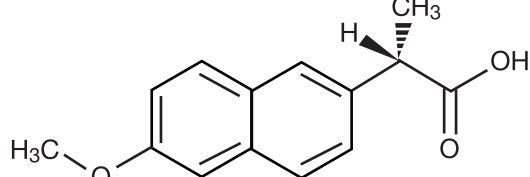
8.6 Hepatic Impairment
Caution is advised when high doses are required and some adjustment of dosage may be required in these patients. It is prudent to use the lowest effective dose.

8.7 Renal Impairment
Naproxen-containing products are not recommended for use in patients with moderate to severe and severe renal impairment (creatinine clearance <30 mL/min).

10 OVERDOSAGE
Symptoms following acute NSAID overdoses have been typically limited to lethargy, drowsiness, nausea, vomiting, and epigastric pain, which have been generally reversible with supportive care.

11 DESCRIPTION
Naproxen tablets, USP are nonsteroidal anti-inflammatory drugs and available as follows: Naproxen tablets, USP are available as light yellow round shaped tablets containing 250 mg naproxen, light yellow capsule shaped tablets containing 375 mg naproxen, and light yellow oblong shaped tablets containing 500 mg naproxen for oral administration.

For additional information about overdose treatment contact a poison control center (1-800-222-1222).
11 DESCRIPTION
Naproxen tablets, USP are nonsteroidal anti-inflammatory drugs and available as follows: Naproxen tablets, USP are available as light yellow round shaped tablets containing 250 mg naproxen, light yellow capsule shaped tablets containing 375 mg naproxen, and light yellow oblong shaped tablets containing 500 mg naproxen for oral administration.



Naproxen is white or almost white crystalline powder. It is insoluble in water, soluble in chloroform, dehydrated ethanol and methanol. Sparingly soluble in ether. The octanol/water partition coefficient of Naproxen at pH < 2.18 is 3.18.

Each naproxen tablet, USP contains the following inactive ingredients: croscarmellose sodium, yellow iron oxide, povidone and magnesium stearate

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action
Naproxen has analgesic, anti-inflammatory, and antipyretic properties. The mechanism of action of naproxen, like that of other NSAIDs, is not completely understood but involves inhibition of cyclooxygenase (COX-1 and COX-2).

12.2 Pharmacodynamics
In a healthy volunteer study, 10 days of concomitant administration of naproxen 220 mg once-daily with low-dose immediate-release aspirin (81 mg) showed an interaction with the antiplatelet activity of aspirin as measured by % serum thromboxane B2 inhibition at 24 hours following the day 10 dose [98.7% (aspirin alone) vs 93.1% (naproxen and aspirin)].

12.3 Pharmacokinetics
Naproxen is rapidly and completely absorbed from the gastrointestinal tract with an in vivo bioavailability of 95%. The elimination half-life of naproxen is unchanged across products ranging from 12 to 17 hours. Steady-state levels of naproxen are reached in 4 to 5 days, and the degree of naproxen accumulation is consistent with this half-life.

12.4 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 less than proportional increase in plasma levels due to an increase in clearance caused by saturation of plasma protein binding at higher doses.

12.5 Elimination
The clearance of naproxen is 0.13 mL/min/kg. Approximately 95% of the naproxen from any dose is excreted in the urine, primarily as naproxen (<1%), 6-O-desmethyl naproxen (<1%) or their conjugates (86% to 92%). The plasma half-life of the naproxen anion in humans ranges from 12 to 17 hours.

12.6 Excretion
The clearance of naproxen is 0.13 mL/min/kg. Approximately 95% of the naproxen from any dose is excreted in the urine, primarily as naproxen (<1%), 6-O-desmethyl naproxen (<1%) or their conjugates (86% to 92%). The plasma half-life of the naproxen anion in humans ranges from 12 to 17 hours.

12.7 Elimination
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12.8 Excretion
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12.9 Excretion
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12.10 Excretion
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12.11 Excretion
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12.12 Excretion
The clearance of naproxen is 0.13 mL/min/kg. Approximately 95% of the naproxen from any dose is excreted in the urine, primarily as naproxen (<1%), 6-O-desmethyl naproxen (<1%) or their conjugates (86% to 92%). The plasma half-life of the naproxen anion in humans ranges from 12 to 17 hours.

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12.14 Excretion
The clearance of naproxen is 0.13 mL/min/kg. Approximately 95% of the naproxen from any dose is excreted in the urine, primarily as naproxen (<1%), 6-O-desmethyl naproxen (<1%) or their conjugates (86% to 92%). The plasma half-life of the naproxen anion in humans ranges from 12 to 17 hours.

12.15 Excretion
The clearance of naproxen is 0.13 mL/min/kg. Approximately 95% of the naproxen from any dose is excreted in the urine, primarily as naproxen (<1%), 6-O-desmethyl naproxen (<1%) or their conjugates (86% to 92%). The plasma half-life of the naproxen anion in humans ranges from 12 to 17 hours.

12.16 Excretion
The clearance of naproxen is 0.13 mL/min/kg. Approximately 95% of the naproxen from any dose is excreted in the urine, primarily as naproxen (<1%), 6-O-desmethyl naproxen (<1%) or their conjugates (86% to 92%). The plasma half-life of the naproxen anion in humans ranges from 12 to 17 hours.

12.17 Excretion
The clearance of naproxen is 0.13 mL/min/kg. Approximately 95% of the naproxen from any dose is excreted in the urine, primarily as naproxen (<1%), 6-O-desmethyl naproxen (<1%) or their conjugates (86% to 92%). The plasma half-life of the naproxen anion in humans ranges from 12 to 17 hours.

12.18 Excretion
The clearance of naproxen is 0.13 mL/min/kg. Approximately 95% of the naproxen from any dose is excreted in the urine, primarily as naproxen (<1%), 6-O-desmethyl naproxen (<1%) or their conjugates (86% to 92%). The plasma half-life of the naproxen anion in humans ranges from 12 to 17 hours.

12.19 Excretion
The clearance of naproxen is 0.13 mL/min/kg. Approximately 95% of the naproxen from any dose is excreted in the urine, primarily as naproxen (<1%), 6-O-desmethyl naproxen (<1%) or their conjugates (86% to 92%). The plasma half-life of the naproxen anion in humans ranges from 12 to 17 hours.

12.20 Excretion
The clearance of naproxen is 0.13 mL/min/kg. Approximately 95% of the naproxen from any dose is excreted in the urine, primarily as naproxen (<1%), 6-O-desmethyl naproxen (<1%) or their conjugates (86% to 92%). The plasma half-life of the naproxen anion in humans ranges from 12 to 17 hours.

12.21 Excretion
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12.22 Excretion
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12.23 Excretion
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12.24 Excretion
The clearance of naproxen is 0.13 mL/min/kg. Approximately 95% of the naproxen from any dose is excreted in the urine, primarily as naproxen (<1%), 6-O-desmethyl naproxen (<1%) or their conjugates (86% to 92%). The plasma half-life of the naproxen anion in humans ranges from 12 to 17 hours.

12.25 Excretion
The clearance of naproxen is 0.13 mL/min/kg. Approximately 95% of the naproxen from any dose is excreted in the urine, primarily as naproxen (<1%), 6-O-desmethyl naproxen (<1%) or their conjugates (86% to 92%). The plasma half-life of the naproxen anion in humans ranges from 12 to 17 hours.

12.26 Excretion
The clearance of naproxen is 0.13 mL/min/kg. Approximately 95% of the naproxen from any dose is excreted in the urine, primarily as naproxen (<1%), 6-O-desmethyl naproxen (<1%) or their conjugates (86% to 92%). The plasma half-life of the naproxen anion in humans ranges from 12 to 17 hours.

Bottles of 1,000 NDC 50228-435-10
Naproxen Tablets USP, 500 mg are light yellow, oblong shaped tablets debossed with "S & G" on either side of functional score on one side and "435" on the other side.
Bottles of 30 NDC 50228-436-30
Bottles of 100 NDC 50228-436-01
Bottles of 500 NDC 50228-436-05
Bottles of 1,000 NDC 50228-436-10

Store at 15°C to 30°C (59°F to 86°F) in well-closed containers; dispense in light-resistant containers.
17 PATIENT COUNSELING INFORMATION
Advise the patient to read the FDA-approved patient labeling (Medication Guide) that accompanies each prescription dispensed.

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.

Gastrointestinal Bleeding, Ulceration, and Perforation
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.

Hepatotoxicity
Inform patients of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, pruritus, diarrhea, jaundice, right upper quadrant tenderness, and "flu-like" symptoms). If these occur, instruct patients to stop naproxen tablets and seek immediate medical therapy.

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.

Anaphylactic Reactions
Inform patients of the signs of an anaphylactic reaction (e.g., difficulty breathing, swelling of the face or throat). Advise patients to seek immediate emergency help if these occur.

Serious Skin Reactions, including DRESS
Advise patients to stop taking naproxen tablets immediately if they develop any type of rash or fever and to contact their healthcare provider as soon as possible.

Fertile Females
Advise females of reproductive potential who desire pregnancy that NSAIDs, including naproxen tablets, may be associated with a reversible delay in ovulation.

Fetal Toxicity
Inform pregnant women to avoid use of naproxen tablets and other NSAIDs starting at 30 weeks gestation because of the risk of the premature closing of the fetal ductus arteriosus.

Avoid Concomitant Use of NSAIDs
Inform patients that the concomitant use of naproxen tablets 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.

Use of NSAIDs and Low-Dose Aspirin
Inform patients not to use low-dose aspirin concomitantly with naproxen tablets until they talk to their healthcare provider.

Medication Guide for Nonsteroidal Anti-inflammatory Drugs (NSAIDs)
What is the most important information I should know about medicines called Nonsteroidal Anti-inflammatory Drugs (NSAIDs)? NSAIDs can cause serious side effects, including:

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

Do not take NSAIDs right before or after a heart surgery called a "coronary artery bypass graft (CABG)."

Avoid taking NSAIDs after a recent heart attack, unless your healthcare provider tells you to. You may have an increased risk of another heart attack if you take NSAIDs after a recent heart attack.

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

The risk of getting an ulcer or bleeding increases with:
past history of stomach ulcers, or stomach or intestinal bleeding with use of NSAIDs
taking medicines called "corticosteroids", "anticoagulants", "SSRIs", or "SNRIs"

- increasing doses of NSAIDs
older age
longer use of NSAIDs
poor health
smoking
advanced liver disease
drinking alcohol
bleeding problems

NSAIDs should only be used:
exactly as prescribed
at the lowest dose possible for your treatment
for the shortest time needed

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

Who should not take NSAIDs?
Do not take NSAIDs:
if you have had an asthma attack, hives, or other allergic reaction with aspirin or any other NSAIDs.
right before or after heart bypass surgery.

Before taking NSAIDs, tell your healthcare provider about all of your medical conditions, including if you:
have liver or kidney problems
have high blood pressure
have asthma
are pregnant or plan to become pregnant. Taking NSAIDs at about 20 weeks of pregnancy or later may harm your unborn baby.

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

What are the possible side effects of NSAIDs?
NSAIDs can cause serious side effects, including:
See "What is the most important information I should know about medicines called Nonsteroidal Anti-inflammatory Drugs (NSAIDs)?"

- new or worse high blood pressure
heart failure
liver problems including liver failure
kidney problems including kidney failure
low red blood cells (anemia)
life-threatening skin reactions
life-threatening allergic reactions

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