



These highlights do not include all the information needed to use NAPROXEN ORAL SUSPENSION safely and effectively. See full prescribing information for NAPROXEN ORAL SUSPENSION.

NAPROXEN oral suspension, for oral use

Initial U.S. Approval: 1976

#### WARNING: RISK OF SERIOUS CARDIOVASCIII AR 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 oral suspension is contraindicated in the setting of coronary artery bypass Serial (CABG) surgers, (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 oral suspension is a non-steroidal anti-inflammatory drug 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

---DOSAGE AND ADMINISTRATION-

Use the lowest effective dose for shortest duration consistent with individual patient treatment goals. (2)

## Rheumatoid Arthritis, Osteoarthritis, and Ankylosing Spondylitis

Naproxen oral	250 mg (10 mL)	twice daily	
suspension	or 375 mg (15 mL)	twice daily	
	or 500 mg (20 mL)	twice daily	

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 1500 mg/day for up to 6

#### Polyarticular Juvenile Idiopathic Arthritis

ommended total daily dose of naproxen is approximately 10 mg/kg given in 2 divided doses. The following table may be used as a guide for dosing of napr

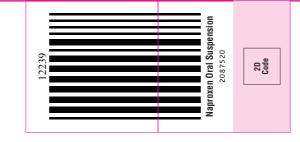
Patient's Weight	Dose	Administered as
13 kg (29 lb)	62.5 mg twice daily	2.5 mL (1/2 tsp) twice daily
25 kg (55 lb)	125 mg twice daily	5.0 mL (1 tsp) twice daily
38 kg (84 lb)	187.5 mg twice daily	7.5 mL (1 1/2 tsp) twice daily

Management of Pain, Primary Dysmenorrhea, and Acute Tendonitis and Bursitis The recommended starting dose of naproxen oral suspension is 500 mg (20 mL), followed by 250 mg (10 mL) every 6 to 8 hours as required.

Acute Gout

----DOSAGE FORMS AND STRENGTHS

#### The recommended starting dose is 750 mg (30 mL) of naproxen oral suspension followed by 250 mg (10 mL) every 8 hours until the attack has subsided Naproxen oral suspension: 125 mg/5 mL (contains 39 mg sodium) FULL PRESCRIBING INFORMATION: CONTENTS\* DRUG INTERACTIONS WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS 8 USE IN SPECIFIC POPULATIONS INDICATIONS AND USAGE 8.1 Pregnancy 1 8.2 8.3 Lactation Females and Males of Reproductive Potential 2 DOSAGE AND ADMINISTRATION 2.1 General Dosing Instructions 8.4 Pediatric Use Rheumatoid Arthritis, Osteoarthritis and Ankylosing Spondylitis Geriatric Use Polyaricular Juvania, Osecarinita and Anylosing Spontynus Polyaricular Juvaniel Idiopathic Arthritis Management of Pain, Primary Dysmenorrhea, and Acute Tendonitis and Bursitis Hepatic Impairmen 8.7 Renal Impairment 2.5 Acute Gout 10 OVERDOSAGE 2.6 Non-Interchangeability with Other Formulations of Naproxen 11 DESCRIPTION 3 DOSAGE FORMS AND STRENGTHS 12 CLINICAL PHARMACOLOGY 4 CONTRAINDICATIONS 12.1 Mechanism of Action WARNINGS AND PRECAUTIONS 5 Pharmacodynamics Cardiovascular Thrombotic Events 12.3 Pharmacokinetics Gastrointestinal Bleeding, Ulceration, and Perforation 13 NONCLINICAL TOXICOLOGY 5.3 Henatotoxicity



Renal Toxicity

Long-term adr

function

Hyperkalemia

5.7 Anaphylactic Reactions

5.9 Serious Skin Reactions

(4) and Warnings and Precautions (5.8)].

--CONTRAINDICATIONS-5.6 Renal Toxicity and Hyperkalemia

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

History of asthma, urticaria, or other allergic-type reactions after taking aspirin or other NSAIDs (4) • In the setting of CABG surgery (4)

---WARNINGS AND PRECAUTIONS--

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.

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 oral suspension 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 hypovolenia. Avoid use of naproxen oral suspension in patients with advan renal disease unless benefits are expected to outweigh risk of worsening renal function. (5.6)

<u>Anaphylactic Reactions:</u> Seek emergency help if an anaphylactic reaction occurs. (5.7) <u>Exacerbation of Asthma Related to Aspirin Sensitivity:</u> Naproxen oral suspension is contraindicated in patients with aspirin-sensitive asthma. Monitor patients with preexisting asthma (without aspirin sensitivity), (5.8)

Serious Skin Reactions: Discontinue naproxen oral suspension at first appearance of skin rash or other signs of hypersensitivity. (5.9) Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS): Discontinue and evaluate

Fetal Toxicity: Limit use of NSAIDs, including naproxen oral suspension, 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

--- ADVERSE REACTIONS--

Most common adverse reactions to naproxen were dyspepsia, abdominal pain, nausea, headache, rash, ecchymosis, and edema. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Hetero Labs Limited at 1-866-495-1995 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 oral suspension with drugs that interfere with hemostasis. Concomitant use of naproxen oral suspension and analgesic doses of aspirin is not

ACE inhibitors, Angiotensin Receptor Blockers (ARB), or Beta-Blockers: Concomitant use with naproxen oral suspension may diminish the antihypertensive effect of these drugs. Monitor blood ure. (7)

ACE Inhibitors and ARBs: Concomitant use with naproxen oral suspension in elderly, volume

depleted, or those with renal impairment may result in deterioration of renal function. In such high risk patients, monitor for signs of worsening renal function. (7) <u>Diuretics</u>: NSAIDs can reduce natriuretic effect of furosemide and thiazide diuretics. Monitor

Digoxin: Concomitant use with naproxen oral suspension 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 oral suspension in women who have difficulties conceiving. (8.3) Renal Impairment: Naroxen-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

13.1 Carcinogenesis, Mutagenesis, and Impairment of Fertility

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

Clinical trials of several COX-2 selective and nonselective NSAIDs of up to three years duration

have shown an increased risk of serious cardiovascular (CV) thrombotic events, including myocardial infarction (MI) and stroke, which can be fatal. Based on available data, it is unclear

that the risk for CV thrombotic events is similar for all NSAIDS. The relative increase in serious CV thrombotic events over baseline conferred by NSAID use appears to be similar in those with and

without known CV disease or risk factors for CV disease. However, patients with known CV disease

or risk factors had a higher absolute incidence of excess serious CV thrombotic events, due to their

To minimize the potential risk for an adverse CV event in NSAID-treated natients 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

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

Two large, controlled clinical trials of a COX-2 selective NSAID for the treatment of pain in the first 10 to 14 days following CABG surgery found an increased incidence of myocardial infarction and

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

o 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

Avoid the use of naproxen oral suspension in patients with a recent MI unless the benefits are

expected to outweigh the risk of recurrent CV thrombotic events. If naproxen oral suspension is

NSAIDs. including naproxen, cause serious gastrointestinal (GI) adverse events including

inflammation, bleeding, ulceration, and perforation of the esophagus, stomach, small intestine,

or large intestine, which can be fatal. These serious adverse events can occur at any time, with or

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%-4% of patients treated for

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

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

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 oral suspension until a serious GI adverse event is ruled out.

In the setting of concomitant use of low-dose aspirin for cardiac prophylaxis, monitor

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

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

Inform patients of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue,

lethargy, diarrhea, pruritus, jaundice, right upper quadrant tenderness, and "flulike" symptoms)

It clinical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophilia, rash, etc.), discontinue naproxen oral suspension immediately, and

NSAIDs, including naproxen oral suspension, 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 angiotensin converting enzyme (ACE) inhibitors, thiazide diuretics, or

loop diuretics may have impaired response to these therapies when taking NSAIDs [see Drug

Monitor blood pressure (BP) during the initiation of NSAID treatment and throughout the course

The Coxib and traditional NSAID Trialists' Collaboration meta-analysis of randomized controlled

trials demonstrated an approximately two-fold increase in hospitalizations for heart failure in COX-2 selective-treated patients and nonselective NSAID-treated patients compared to placebo-treated

patients. In a Danish National Registry study of patients with heart failure, NSAID use increased the

Additionally, fluid retention and edema have been observed in some patients treated with NSAIDs

conditions (e.g., diuretics, ACE inhibitors, or angiotensin receptor blockers [ARBs]) [see Drug

Avoid the use of naproxen oral suspension in patients with severe heart failure unless the benefit

patients with severe heart failure, monitor patients for signs of worsening heart failure.

patients whose overall intake of sodium must be severely restricted.

are expected to outweigh the risk of worsening heart failure. If naproxen oral suspension is used in

Each 5 mL of naproxen oral suspension contains 39 mg of sodium. This should be considered in

Use of naproxen may blunt the CV effects of several therapeutic agents used to treat these me

patients more closely for evidence of GI bleeding [see Drug Interactions (7)].

used in patients with a recent MI, monitor patients for signs of cardiac ischemia.

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

increased baseline rate. Some observational studies found that this increased risk of serious CV

rombotic events began as early as the first weeks of treatment. The increase in CV thrombotic

CLINICAL STUDIES

16 HOW SUPPLIED/STORAGE AND HANDLING

17 PATIENT COUNSELING INFORMATION

5 WARNINGS AND PRECAUTIONS

and the steps to take if they occur.

and Precautions (5.2)].

Post-MI Patients

5.1 Cardiovascular Thrombotic Events

risk has been observed most consistently at higher doses.

Status Post Coronary Artery Bypass Graft (CABG) Surgery

persisted over at least the next four years of follow-up.

5.2 Gastrointestinal Bleeding, Ulceration, and Perforation

vithout warning symptoms, in patients treated with NSAIDS.

Risk Factors for GI Bleeding, Ulceration, and Perforation

coagulopathy are at increased risk for GI bleeding.

therapies other than NSAIDs.

5.3 Hepatotoxicity

have been reported.

5.4 Hypertension

nteractions (7)].

Interactions (7)

5.5 Heart Failure and Edema

risk of MI, hospitalization for heart failure, and death.

of therapy

with NSAIDs including naproxen.

perform a clinical evaluation of the patient.

one year. However, even short-term NSAID therapy is not without risk.

<u>Strategies to Minimize the GI Risks in NSAID-treated patients:</u> • Use the lowest effective dosage for the shortest possible duration

Avoid administration of more than one NSAID at a time.

Revised: 01/2025

### 5.11 Fetal Toxicity

and evaluate the patient immediately Premature Closure of Fetal Ductus Arteriosus

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

istration of NSAIDs has resulted in renal papillary necrosis and other renal injury

Renal toxicity has also been seen in patients in whom renal prostaglandins have a compensator

role in the maintenance of renal perfusion. In these patients, administration of an NSAID may cause

a dose-dependent reduction in prostaglandin formation and, secondarily, in renal blood flow, which may precipitate overt renal decompensation. Patients at greatest risk of this reaction are those

with impaired renal function, dehydration, hypovolemia, heart failure, liver dysfunction, those taking diuretics and ACE inhibitors or ARBs, and the elderly. Discontinuation of NSAID therapy was

No information is available from controlled clinical studies regarding the use of naproxen oral suspension in patients with advanced renal disease. The renal effects of naproxen oral suspension

Correct volume status in dehydrated or hypovolemic patients prior to initiating naproxen oral

suspension. Monitor renal function in patients with renal or hepatic impairment, heart failure, dehydration, or hypovolemia during use of naproxen oral suspension [see Drug Interactions (7)].

Avoid the use of naproxen oral suspension in patients with advanced renal disease unless the benefits are expected to outweigh the risk of worsening renal function. If naprosene oral suspension is used in patients with advanced renal disease, monitor patients for signs of worsening renal

ncreases in serum potassium concentration, including hyperkalemia, have been reported with use

steronism state

of NSAIDs, even in some patients without renal impairment. In patients with normal renal function

Naproxen has been associated with anaphylactic reactions in patients with and without known persensitivity to naproxen and in patients with aspirin-sensitive asthma [see Contraindication

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 NSADs has been reported in such aspirin-sensitive patients, naprovan oral suspension is contraindicated in patients with this form of aspirin sensitivity [see Contraindications (4)]. When

naproxen oral suspension is used in patients with preexisting asthma (without known aspirin

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

Stevens-Johnson Syndrome (SJS), and toxic epidemal 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 the use of naproxen oral suspension at the first appearance of skin

rash or any other sign of hypersensitivity. Naproxen oral suspension is contraindicated in patients

Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) has been reported in patients taking NSAIDs such as naproxen oral suspension. Some of these events have been fatal or life

hreatening. DRESS typically, although not exclusively, presents with fever, rash, lymphadenopathy

abnormalities, myocarditis, or myositis. Sometimes symptoms of DRESS may resemble an acute viral infection. Eosinophilia is often present. Because this disorder is variable in its presentation,

other organ systems not noted here may be involved. It is important to note that early manifestations of hypersensitivity, such as fever or lymphadenopathy, may be present even though

rash is not evident. If such signs or symptoms are present, discontinue naproxen oral suspension

and/or facial swelling. Other clinical manifestations may include hepatitis, nephritis, hematologica

sensitivity), monitor patients for changes in the signs and symptoms of asthma

with previous serious skin reactions to NSAIDs [see Contraindications (4)].

5.10 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)

may hasten the progression of renal dysfunction in patients with preexisting renal disease.

usually followed by recovery to the pretreatment state.

these effects have been attributed to a hyporeninemic-hypoaldo

Seek emergency help if an anaphylactic reaction occurs.

5.8 Exacerbation of Asthma Related to Aspirin Sensitivity

## Oligohydramnios/Neonatal Renal Impairment

Use of NSAIDs, including naproxen oral suspension, at about 20 weeks gestation or later in use of NSAIDS, including hapitokin oral suspension, at about coverses gestation of nater in pregnancy may cause fetal renal dysfunction leading to oligohydramnios and, in some cases, neonatal renal impairment. These adverse outcomes are seen, on average, after days to weeks of treatment, although oligohydramnios has been infrequently reported as soon as 48 hours after NSAID initiation. Oligohydramnios is often hut not always, reversible with treatment discontinuation. Complications of prolonged oligohydramnios may, for example, include limb contractures and delayed lung maturation. In some postmarketing cases of impaired neonatal renal function, invasive procedures such as exchange transfusion or dialysis were required.

If NSAID treatment is necessary between about 20 weeks and 30 weeks gestation, limit naproxen oral suspension use to the lowest effective dose and shortest duration possible. Consider ultrasound monitoring of anniotic fuluid if naproxen oral suspension treatment extends beyond 48 hours. Discontinue naproxen oral suspension if oligohydramnios occurs and follow up according to clinical practice [see Use in Specific Populations (8.1)].

## 5 12 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 naproxet oral suspension has any signs or symptoms of anemia, monitor hemoglobin or hematocrit.

NSAIDs, including naproxen oral suspension, may increase the risk of bleeding events. Concomitar 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)]

## 5.13 Masking of Inflammation and Fever

The pharmacological activity of naproxen oral suspension in reducing inflammation, and possibly fever, may diminish the utility of diagnostic signs in detecting infections

## Medication Guide for Nonsteroidal Anti-inflammatory Drugs (NSAIDs)

What is the most important information I should know about medicines called Nonsteroidal Antiinflammatory 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:
- o with increasing doses of NSAIDs
- o 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:
- o anytime during use
- o without warning symptoms

# 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
- o taking medicines called "corticosteroids", "anticoagulants", "SSRIs", or "SNRIs"
- o increasing doses of o older age NSAIDs
- o longer use of NSAIDs o poor health
- o smoking o advanced liver disease
- o drinking alcohol o bleeding problems

## NSAIDs should only be used:

o exactly as prescribed

Who should not take NSAIDs?

o at the lowest dose possible for your treatment

# o for the shortest time needed

## What are NSAIDs?

Do not take NSAIDs:

your dose.

provider first.

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.

right before or after heart bypass surgery.

Use ONLY a calibrated measuring device to measure

your dose of naproxen oral suspension. DO NOT use a

household teaspoon or tablespoon. Your pharmacist can

provide you with the proper device to correctly measure

Before taking NSAIDS, tell your healthcare provider

about all of your medical conditions, including if you:

• are pregnant or plan to become pregnant. Taking

NSAIDs at about 20 weeks of pregnancy or

later may harm your unborn baby. If you need

to take NSAIDs for more than 2 days when you

are between 20 and 30 weeks of pregnancy,

your healthcare provider may need to monitor

the amount of fluid in your womb around your

baby. You should not take NSAIDs after about 30

are breastfeeding or plan to breast feed.

Tell your healthcare provider about all of the medicines

you take, including prescription or over-the-counter

medicines, vitamins or herbal supplements. NSAIDs

and some other medicines can interact with each other

and cause serious side effects. Do not start taking

any new medicine without talking to your healthcare

See "What is the most important information I should

know about medicines called Nonsteroidal Anti-

What are the possible side effects of NSAIDs?

new or worse high blood pressure

liver problems including liver failure

• low red blood cells (anemia)

life-threatening skin reactions

life-threatening allergic reactions

nausea, vomiting, and dizziness.

kidney problems including kidney failure

Other side effects of NSAIDs include: stomach

Get emergency help right away if you get any of the

Stop taking your NSAID and call your healthcare

provider right away if you get any of the following

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

Call your doctor for medical advice about side effects.

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

shortness of breath or
slurred speech

pain, constipation, diarrhea, gas, heartburn,

swelling of the face or

throat

vomit blood

like tar

with fever

there is blood in your

bowel movement or

it is black and sticky

unusual weight gain

skin rash or blisters

swelling of the arms,

legs, hands and feet

NSAIDs can cause serious side effects, including:

have liver or kidney problems

have high blood pressure

weeks of pregnancy.

inflammatory Drugs (NSAIDs)?

heart failure

following symptoms:

chest pain

symptoms:

nausea

• diarrhea

itching

about NSAIDs.

more tired or

weaker than usual

• your skin or eyes

stomach pain

flu-like symptoms

look yellow

• indigestion or

trouble breathing

weakness in one part

or side of your body

have asthma

How should I take naproxen oral suspension?

if you have had an asthma attack, hives, or other

allergic reaction with aspirin or any other NSAIDs.

5.6 Renal Toxicity and Hyperkalemia

5.4 Hypertension5.5 Heart Failure and

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### FULL PRESCRIBING INFORMATION

WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS

## Cardiovascular Thrombotic Events

Nonsteroidal anti-inflammatory drugs (NSAIDs) cause an increased risk of serious cardiovascular thrombotic 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)]. Nanroxen oral suspension is contraindicated in the setting of coronary artery bypass

graft (CABG) surgery [see Contraindications (4), Warnings and Precautions (5.1)]. Gastrointestinal Bleeding, Ulceration, and Perforation

NSAIDs cause an increased risk of serious pastrointestinal (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 oral suspension is 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 oral suspension and other treatment options before deciding to use narroxen oral suspension. Use the lowest effective dose for the shortest duration consistent with individual patient treatment goals *[see Warnings and Precautions*]

After observing the response to initial therapy with naproxen oral suspension, the dose and frequency should be adjusted to suit an individual patient's needs.

Always use a calibrated measuring device when administering naproxen oral suspension to ensure the dose is measured and administered accurately. A household teaspoon or tablespoon is not an adequate measuring device, especially when one-half of a teaspoonful is to be measured. Given the variability of the household spoon measure, it is strongly recommended that caregivers obtain and use a calibrated measuring device. Health care providers should recommend an appropriate measuring device that can measure and deliver the prescribed dose accurately, and instruct caregivers to use extreme caution in measuring the dosage

Naproxen-containing products such as naproxen oral suspension, 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 dosage of naproxen oral suspension is shown in Table 1

Table 1: Recommended dosages of Naproxen Oral Suspensio

250 mg (10 mL) Naproxen oral suspension twice daily or 375 mg (15 mL) twice daily or 500 mg (20 mL) twice daily

#### Naproxen oral suspension should be shaken gently before use.

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 adm

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 1500 mg/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 1500 mg/day, the physician should observe sufficient increased clinical benefits to offset the potential increased risk

#### 2.3 Polyarticular Juvenile Idiopathic Arthritis

The use of naproxen oral suspension is recommended for juvenile arthritis in children 2 years or older because it allows for more flexible dose titration based on the child's weight. 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 (12.3)].

The recommended total daily dose of naproxen is approximately 10 mg/kg given in 2 divided doses (i.e., 5 mg/kg given twice a day). The following table may be used as a guide for dosing of naproxen oral suspe

Patient's Weight	Dose	Administered as
13 kg (29 lb)	62.5 mg twice daily	2.5 mL (1/2 tsp) twice daily
25 kg (55 lb)	125 mg twice daily	5.0 mL (1 tsp) twice daily
38 kg (84 lb)	187.5 mg twice daily	7.5 mL (1 1/2 tsp) twice daily

	( <b>0</b> 1 15)	for to thig three daily	
2.4	Management of Pain, Pri	mary Dysmenorrhea, and Acute	Tendonitis and Bursitis

The recommended starting dose of naproxen oral suspension is 500 mg (20 mL), followed by 250 mg (10 mL) every 6 to 8 hours as required. The total daily dose should not exceed 1250 mg (50 mL).

#### 2.5 Acute Gout

The recommended starting dose is 750 mg (30 mL) of naproxen oral suspension followed by 250 mg (10 mL) every 8 hours until the attack has subsided.

## 2.6 Non-Interchangeability with Other Formulations of Naproxen

Different dose strengths and formulations (e.g., tablets, suspension) of naproxen are not nterchangeable. This difference should be taken into consideration when changing strengths or formulations.

#### 3 DOSAGE FORMS AND STRENGTHS

Naproxen oral suspension USP: 125 mg/5 mL (contains 39 mg sodium): Available in 1 pint (500 mL) light-resistant bottles

#### 4 CONTRAINDICATIONS

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

## 5.14 Long-Term Use and Laboratory Monitoring

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

Patients with initial hemoglobin values of 10 g or less who are to receive long-term therapy should have hemoglobin values determined periodical 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 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 (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)]

#### 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.

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 i rheumatoid arthritis patients taking daily doses of 1500 mg naproxen compared to those taking 750 mg naproxen

In controlled clinical trials with about 80 pediatric patients and in well-monitored, open-labe 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.

In patients taking naproxen in clinical trials, the most frequently reported adverse experiences in approximately 1% to 10% of patients are

Gastrointestinal (GI) Experiences, including: heartburn\*, abdominal pain\*, nausea\*, constipation\* diarrhea, dyspepsia, stomatitis

<u>Central Nervous System</u>; headache\*, dizziness\*, drowsiness\*, lightheadedness, vertigo <u>Dermatologic</u>: pruritus (itching)\*, skin eruptions\*, ecchymoses\*, sweating, purpura Special Senses: tinnitus\*, visual disturbances, hearing disturbances

# <u>Cardiovascular</u>: edema\*, palpitations <u>General</u>: dyspnea\*, thirst

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

annroximately 1% to 10% of patients. Gastrointestinal (GI) Experiences, including: flatulence, gross bleeding/perforation, GI ulcers

(gastric/duodenai), vomiting <u>General</u>: abnormal renal function, anemia, elevated liver enzymes, increased bleeding time, rashes

#### 6.2 Postmarketing Experience

The following adverse reactions have been identified during post approval use of naproxen Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug

The following are additional adverse experiences reported in <1% of patients taking naproxen during clinical trials and through postmarketing reports. Those adverse reactions observed through postmarketing reports are italicized.

Body as a Whole: anaphylactoid reactions, angioneurotic edema, menstrual disorders, pyrexia (chills and fever) <u>Cardiovascular</u>: congestive heart failure, vasculitis, hypertension, pulmonary edema <u>Gastrointestinal</u>: inflammation, bleeding (sometimes fatal, particularly in the elderly), ulceration,

perforation and obstruction of the upper or lower gastrointestinal tract. Esophagitis, stomatitis hematemesis, pancreatitis, vomiting, colitis, exacerbation of inflammatory bowel disease (ulcerative colitis, Crohn's disease). Hepatobiliary: jaundice, abnormal liver function tests, hepatitis (some cases have been fatal)

Hemic and Lymphatic: eosinophilia, leucopenia, meiena, thrombocytopenia, agranulocytosis granulocytopenia, hemolytic anemia, aplastic anemia <u>Metabolic and Nutritional</u>: hyperglycemia, hypoglycemia

Mercous System: inability to concentrate, depression, dream abnormalities, insomnia, malaise myalgia, muscle weakness, aseptic meningitis, cognitive dysfunction, convulsions Respiratory: eosinophilic pneumonitis, asthma

ogic: alopecia, urticaria, skin rashes, toxic epidermal necrolysis, erythema multiforme erythema nodosum, fixed drug eruption, lichen planus, pustular reaction, systemic lupus erythematoses, bullous reactions, including Stevens-Johnson syndrome, photosensitive dermattis, 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 m Special Senses: hearing impairment, corneal opacity, papillitis, retrobulbar optic neuritis

Urogenital: glomerular nephritis, hematuria, hyperkalemia, interstitial nephritis, nephrotic 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

. Body as a Whole: fever, infection, sepsis, anaphylactic reactions, appetite 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 ons, coma, hallucinations

> Naproxen and anticoagulants such as warfarin have a svnergistic effect on bleeding. The concomitant use of naproxen and

> > Serotonin release by platelets plays an important role in

ulants have an increased risk of serious bleeding compared to the

hemostasis. Case-control and cohort epidemiological studies showed that concomitant use of drugs that interfere with serotonin reuptake and an NSAID

Monitor patients with concomitant use of naproxen oral suspension with

anticoagulants (e.g., warfarin), antiplatelet agents (e.g., aspirin), selective

serotonin reuptake inhibitors (SSRIs), and serotonin norepinephrine reuptake inhibitors (SNRIs) for signs of bleeding [see Warnings and Precautions

may potentiate the risk of bleeding more than an NSAID alone.

Respiratory: asthma, respiratory depression, pneumonia Dermatologic: exfoliative dermatitis

<u>Special Senses</u>: blurred vision, conjunctivitis <u>Urogenital</u>: cystitis, dysuria, oliguria/polyuria, proteinuria

Drugs That Interfere with Hemostasis

(5.12)].

Clinical Impact

Intervention

7 DRUG INTERACTIONS

#### See Table 1 for clinically significant drug interactions with naproxen

use of either drug alone.

Table 1: Clinically Significant Drug Interactions with Naproxen.

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Note: Pharma code position will be change as per folding machine feasibility at vendor.

# Other information about NSAIDs

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

Aspirin

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.



Manufactured for: Camber Pharmaceuticals, Inc., Piscataway, NJ 08854

by: HETERO<sup>TM</sup> Hetero Labs Limited Jeedimetla, Hyderabad - 500 055, India.

For more information, call 1-866-495-1995

Medication Guide available at http://camberpharma.com/medication-guides

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

Revised: 01/2025

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 low-dose immediate-release aspirin, with the Interaction most marked during the washout period of naproxen [see Clinical Pharmacology (12.2)]. 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 nalgesic doses of aspirin does not produce any greater therapeutic effect han 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 analgesics, 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 oral suspension and analoesic doses of aspirin Warnings and Precautions (5.12)]. Naproxen oral suspension is not a substitute for low dose aspirin for ACE Inhibitors, Angiotensin Receptor Blockers, and Beta-Blockers NSAIDs may diminish the antihypertensive effect of angiotensin converting enzyme (ACF) inhibitors, angiotensin receptor blockers Clinical Impact: verting enzyme (ACE) inhibitors, angiotensin receptor (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 During concomitant use of naproxen oral suspension and ACE-inhibitors. Intervention: ARBs, or beta-blockers, monitor blood pressure to ensure that the desired blood pressure is obtained. During concomitant use of naproxen oral suspension and ACEinhibitors 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 linical Impact. Clinical studies, as well as post-marketing observations, showed that NSAIDs reduced the natriuretic effect of loop diuretics (e.g., furosemide) and thiazide uretics in some patients. This effect has been attributed to the NSAID hibition of renal prostaglandin synthesis. Intervention: During concomitant use of naproxen oral suspension with diuretics, observe patients for signs of worsening real function, in addition to assuring diuretic efficacy including antihypertensive effects [see Warnings and Precautions (56)1Digoxin 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 oral suspension and digoxin, monitor serum digoxin levels. Lithium NSAIDs have produced elevations in plasma lithium levels and reductions in Clinical Impact. 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 oral suspension 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). During concomitant use of naproxen oral suspension and methotrexate, monitor patients for methotrexate toxicity. Intervention. Cyclosporine Clinical Impact: Concomitant use of naproxen oral suspension and cyclosporine may increase cyclosporine's nephrotoxicity. Intervention: During concomitant use of naproxen oral suspension and cyclosporine nonitor 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 Pemetrexed

Published literature reports that the use of NSAIDs at about 30 weeks of gestation and later in pregnancy may cause premature closure of the fetal ductus arteriosus. Oligohydramnios/Neonatal Renal Impairment: published studies and postmarketing reports describe maternal NSAID use at about 20 weeks gestation or later in pregnancy associated with fetal renal dysfunction leading to oligohydramnios,

Premature Closure of Fetal Ductus Arteriosus:

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

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

Animal Data Reproduction studies have been performed in rats at 20 mg/kg/day (0.13 times the maximum recommended human daily dose of 1500 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 (0.6 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.

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8.2 Lactation
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<u>Risk Summary</u> 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. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for naproxen oral suspension and any potential adverse effects on the breastfed infant from the naproxen oral ension 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 naproxet oral suspension, 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 staglandin synthesis inhibitors has the potential to disrupt prostagla -mediated follicula 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 oral suspension, in women who have difficulties conceiving or who are undergoing investigation of infertility.

#### 8.4 Pediatric Use

Safety and effectiveness in pediatric patients below the age of 2 years have not been established Pediatric dosing recommendations for polyarticular juvenile idiopathic arthritis are based on wellcontrolled studies. There are no adequate effectiveness or dose-response data for other pediatric conditions, but the experience in polyarticular juvenile idiopathic arthritis and other use experience have established that single doses of 2.5 to 5 mg/kg (as naproxen suspension), with total daily dose not exceeding 15 mg/kg/day, are well tolerated in pediatric patients over 2 years of age.

### 8.5 Geriatric Use

The hepatic and renal tolerability of long-term naproxen administration was studied in two doubleblind clinical trials involving 586 patients. Of the patients studied, 98 patients were age 65 and older and 10 of the 98 patients were age 75 and older. Naproxen was administered at doses of 375 mg twice daily or 750 mg twice daily for up to 6 months. Transient abnormalities of laboratory tests assessing hepatic and renal function were noted in some patients, although there were no differences noted in the occurrence of abnormal values among different age groups.

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 outweighs 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, 5.14)]. Studies indicate that although total plasma concentration of naproxen is unchanged, the unbound plasma fraction of naproxen is increased in the elderly. The clinical significance of this finding is unclear, although it is possible that the increase in free naproxen concentration could be associ with an increase in the rate of adverse events per a given dosage in some elderly patients. 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

Experience indicates that geriatric patients may be particularly sensitive to certain adverse effects of nonsteroidal anti-inflammatory drugs. Elderly or debilitated patients seem to tolerate peptic ulceration or bleeding less well when these events do occur. Most spontaneous reports of fatal GI events are in the geriatric population [see Warnings and Precautions (5.6)].

Naproxen is known to be substantially excreted by the kidney, and the risk of toxic reactions to map does its known to be substantially excited by the known, and the tax of toxic electron at this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in does selection, and it may be useful to monitor renal function. Geriatric patients may be at a greater risk for the development of a form of renal toxicity precipitated by reduced prostaglandin formation during administration of nonsteroidal anti-inflammatory drugs [see Warnings and Precautions (5.6)].

# 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 [see Clinical Pharmacology (12.3)]. 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) [see Warnings and Precautions (5.6), Clinical Pharmacology (12.3)].

## 10 OVERDOSAGE

ness and pain at rest. In double-blind studies the drug was shown to be as effective as aspirin but with fewer side effects. In patients with acute gout, a favorable response to naproxen was shown by significant clearing of natory changes (e.g., decrease in swelling, heat) within 24 to 48 hours, as well as by relied of pain and tenderness.

Naproxen pharmacokinetics has not been determined in subjects with renal insufficiency. Given that naproxen, its metabolites and conjugates are primarily excreted by the kidney, the potential

exists for naproxen metabolites to accumulate in the presence of renal insufficiency. Elimination of

When NSAIDs were administered with aspirin, the protein binding of NSAIDs were reduced,

although the clearance of free NSAID was not altered. The clinical significance of this interaction is not known. See Table 2 for clinically significant drug interactions of NSAIDs with aspirin [see

A 2-year study was performed in rats to evaluate the carcinogenic potential of naproxen at

rat doses of 8, 16, and 24 mg/kg/day (0.05, 0.1, and 0.16 times the maximum recommended

human daily dose of 1500 mg/day based on a body surface area comparison). No evidence of

Naproxen tested positive in the in vivo sister chromatid exchange assay for but was not mutagenic

Male rats were treated with 2, 5, 10, and 20 mg/kg naproxen by oral gavage for 60 days prior to

first 7 days of pregnancy. There were no adverse effects on fertility noted (up to 0.13 times the

Naproxen has been studied in patients with rheumatoid arthritis, osteoarthritis, polyarticular

juvenile idiopathic arthritis, ankylosing spondylitis, tendonitis and bursitis, and acute gout,

Improvement in patients treated for rheumatoid arthritis was demonstrated by a reduction in joint

by both the investigator and patient, and by increased mobility as demonstrated by a reduction in

walking time. Generally, response to naproxen has not been found to be dependent on age, sex, severity or duration of rheumatoid arthritis.

In patients with osteoarthritis, the therapeutic action of naproxen has been shown by a reduction

in joint pain or tenderness, an increase in range of motion in knee joints, increased mobility as

In a clinical trial comparing standard formulations of naproxen 375 mg twice a day (750 mg a day)

vs 750 mg twice a day (1500 mg/day). 9 patients in the 750 mg group terminated prematurely because of adverse events. Nineteen patients in the 1500 mg group terminated prematurely

In clinical studies in patients with rheumatoid arthritis, osteoarthritis, and polvarticular iuvenile

idiopathic arthritis, naproxen has been shown to be comparable to aspirin and indomethacin in

controlling the aforementioned measures of disease activity, but the frequency and severity of the milder gastrointestinal adverse effects (nausea, dyspepsia, heartburn) and nervous sys

adverse effects (tinnitus, dizziness, lightheadedness) were less in naproxen-treated patients than

In patients with ankylosing spondylitis, naproxen has been shown to decrease night pain, morning

because of adverse events. Most of these adverse events were gastrointestinal events.

strated by a reduction in walking time, and improvement in capacity to perform activities of

ing, a reduction in duration of morning stiffness, a reduction in disease activity as assessed

mating and female rats were treated with the same doses for 14 days prior to mating and for the

naproxen is decreased in patients with severe renal impairment

13.1 Carcinogenesis, Mutagenesis, and Impairment of Fertility

in the in vitro bacterial reverse mutation assay (Ames test)

Renal Impairment

Drug Interaction Studies

Drug Interactions (7)].

tumorigenicity was found.

Impairment of Fertility

14 CLINICAL STUDIES

MRDH based on body surface area).

daily living impaired by the disease.

in those treated with aspirin or indomethacin.

Carcinogenesis

Mutagenesis

13 NONCLINICAL TOXICOLOGY

Aspirir

Naproxen has been studied in patients with mild to moderate pain secondary to postoperativ pathogetic postpartum episiotomy and uterine contraction pain and dysmenorrhea. Onset of pain relief can begin within 1 hour in patients taking naproxen. Analgesic effect was shown by such measures as reduction of pain intensity scores, increase in pain relief scores, decrease in numbers of patients requiring additional analgesic medication, and delay in time to remedication. The analgesic effect has been found to last for up to 12 hours.

Naproxen may be used safely in combination with gold salts and/or corticosteroids: however, in controlled clinical trials, when added to the regimen of patients receiving corticosteroids, it did not appear to cause greater improvement over that seen with corticosteroids alone. Whether naproxer has a "steroid-sparing" effect has not been adequately studied. When added to the regimen of patients receiving gold salts, naproxen did result in greater improvement. Its use in combination with salicylates is not recommended because there is evidence that aspirin increases the rate of excretion of naproxen and data are inadequate to demonstrate 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 events than demonstrated for eithe product alone.

In <sup>51</sup>Cr blood loss and gastroscopy studies with normal volunteers, daily administration of 1000 mg of naproxen oral suspension has been demonstrated to cause statistically significantly less gastric bleeding and erosion than 3250 mg of aspirin.

#### 16 HOW SUPPLIED/STORAGE AND HANDLING

Naproxen oral suspension, USP: 125 mg/5 mL (contains 39 mg sodium) is available as a light orange-colored oral suspension in 1 pint (500 mL) light-resistant bottles. It is supplied as follows One 500 mL bottle with child-resistant closure: NDC 31722-682-05

Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature]. Avoid excessive heat above 40°C (104°F). Dispense in light-resistant containers. Shake gently before use.

#### 17 PATIENT COUNSELING INFORMATION

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

Clinical Impact:	Concomitant use of naproxen oral suspension 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 oral suspension and pemetrexed, patients with renal impairment whose creatinine clearance ranges from 45 79 mL/min, monitor for myelosuppression, renal and GI toxicity. NSAIDs with short elimination half-lives (e.g., diclofenac, indomethac should be avoided for a period of two days before, the day of, and two da following administration of pemetrexed. In the absence of data regarding potential interaction between pemetrex and NSAIDs with longer half-lives (e.g., meloxicam, nabumetone), patier taking these NSAIDs should interrupt dosing for at least five days before, the day of, and two days following pemetrexed administration.	
Antacids and Su	cralfate	
Clinical Impact:	Concomitant administration of some antacids (magnesium oxide or aluminu hydroxide) and sucralfate can delay the absorption of naproxen.	
Intervention:	Concomitant administration of antacids such as magnesium oxide aluminum hydroxide, and sucralfate with naproxen oral suspension is r recommended.	
Cholestyramine		
Clinical Impact:	Concomitant administration of cholestyramine can delay the absorption naproxen.	
Intervention:	Concomitant administration of cholestyramine with naproxen oral suspensi is not recommended.	
Probenecid		
Clinical Impact:	Probenecid given concurrently increases naproxen anion plasma levels a extends its plasma half-life significantly.	
Intervention:	Patients simultaneously receiving naproxen oral suspension and probened should be observed for adjustment of dose if required.	
Other albumin-t		
Clinical Impact:	Naproxen is highly bound to plasma albumin; it thus has a theoretii potential for interaction with other albumin-bound drugs such as coumar type anticoagulants, sulphonylureas, hydantoins, other NSAIDs, and aspi [see Warnings and Precautions (5.2)].	
Intervention:	Patients simultaneously receiving naproxen oral suspension and a hydanto sulphonamide or sulphonylurea should be observed for adjustment of do if required.	
)rug/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 te	st	
Clinical Impact:	The administration of naproxen may result in increased urinary values in 17-ketogenic steroids because of an interaction between the drug and/or metabolites with m-dinitrobenzene used in this assay.	
Intervention:	Although 17-hydroxy-corticosteroid measurements (Porter-Silber test) do r appear to be artifactually altered, it is suggested that therapy with naprox be temporarily discontinued 72 hours before adrenal function tests a performed if the Porter-Silber test is to be used.	
Urinary assays	of 5-hydroxy indoleacetic acid (5HIAA)	
Clinical Impact:	Naproxen may interfere with some urinary assays of 5-hydroxy indoleace acid (5HIAA).	
Intervention:	This effect should be kept in mind when urinary 5-hydroxy indoleacetic a is determined.	
USE IN SPE	CIFIC POPULATIONS	
1 Pregnancy		
Risk Summary		
luctus arteriosus leonatal renal in	ncluding naproxen oral suspension, can cause premature closure of the and fetal renal dysfunction leading to oligohydramnios and, in some ca ipairment. Because of these risks, limit dose and duration of naproxen etween about 20 and 30 weeks of cestation, and avoid naproxen oral suspen	

Premature Closure of Fetal Ductus Arteriosus

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

Oligohydramnios/Neonatal Renal Impairment

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

Data from observational studies regarding other potential embryofetal risks of NSAID use in women in the first or second trimesters of pregnancy are inconclusive. In animal reproduction studies in rats, rabbits, and mice no evidence of teratogenicity or fetal harm when naproxen was administered during the period of organogenesis at does 0.13, 0.26, and 0.6 times the maximum recommended human daily dose of 1500 mg/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, resulted in increased pre- and post-implantation loss. Prostaglandins also have been shown to have an important role in fetal kidney development. In published animal studies, prostaglandin synthesis inhibitors have been reported to impair kidney

## development when administered at clinically relevant doses. The estimated background risk of major birth defects and miscarriage for the indicated

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

**Clinical Considerations** Fetal/Neonatal Adverse Reactions

Premature Closure of Fetal Ductus Arteriosus

Avoid use of NSAIDs in women at about 30 weeks gestation and later in pregnancy, because NSAIDs, including naproxen oral suspension, can cause premature closure of the fetal ductus arteriosus *(see Data)*.

Oligohydramnios/Neonatal Renal Impairment

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

#### Labor or Delivery

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

Data

Human Data

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 entercocilitis, patent ductus arteriosus and intractanial hemorrhage. Naproxen 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 effects of nonsteroidal anti-inflammatory drugs on the fetal cardiovascular system (closure of ductus arteriosus), use during pregnancy (particularly starting at 30 weeks of gestation, or third imester) should be avoided.

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. A few patients have experienced convulsions, 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 [see Warnings and Precautions (5.1, 5.2)].

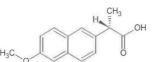
Manage patients with symptomatic and supportive care following an NSAID overdosage. There are no specific antidotes. There are no specific antidotes. Hemodialysis does not decrease the plasma concentration of naproxen because of the high degree of its protein binding. Consider emesis and/or activated 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 see within four hours of ingestion or in patients with a large overdosage (5 to 10 times the recommended dosage). Forced diuresis, alkalinization of urine, hemodialysis, or hemoperfusion may not be useful due to high protein binding.

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

## 11 DESCRIPTION

Naproxen oral suspension USP is available as a light orange-colored oral suspension containing 125 mg/5 mL of naproxen for oral administration

Naproxen is a propionic acid derivative related to the arylacetic acid group of nonsteroidal antiinflammatory drugs. The chemical name is (S)-6-methoxy- $\alpha$ -methyl-2-naphthalene acetic acid. The molecular weight is 230.26 Its molecular formula is C14H14O3, and it has the following chemical structure.



Naproxen, USP is a white to off-white crystalline powder. It is soluble in chloroform, in dehydrated alcohol, in alcohol, sparingly soluble in ether and practically insoluble in ether. It is lipid-soluble practically insoluble in wate

The inactive ingredients in naproxen oral suspension USP include fumaric acid, FD&C yellow 6 microcrystalline cellulose and carboxy methyl cellulose sodium, orange flavor, pineapple fresh flavor, purified water, sodium benzoate, sodium chloride, non-crystallizing sorbitol solution sucrose and xanthan gum

#### 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).

Naproxen is a potent inhibitor of prostaglandin synthesis in vitro. Naproxen 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 naproxen is an inhibitor of prostaglandin synthesis, its mode of action may be due to a decrease of prostaglandins in peripheral tissues.

## 12.2 Pharmacodynamics

In a healthy volunteer study, 10 days of concomitant administration of naproxen 220 mg onceally 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)]. The interaction was observed even following discontinuation of naproxen on day 11 (while aspirin dose was continued) but normalized by day 13. In the same study, the interaction was greater when naproxen was administered 30 minutes prior to aspirin [98.7% vs 87.7%] and minimal when aspirin was administered 30 minutes prior to naproxen [98.7% vs 95.4%].

Following administration of naproxen 220 mg twice-daily with low-dose immediate release aspirin (first naproxen dose given 30 minutes prior to aspirin), the interaction was minimal at 24 h following day 10 dose [98.7% vs 95.7%]. However, the interaction was more prominent after discontinuation of naproxen (washout) on day 11 [98.7% vs 84.3%] and did not normalize completely by day 13 [98.5% vs 90.7%]. [see Drug Interactions (7)

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 ranges 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.

Absorption Peak plasma levels of naproxen given as naproxen oral suspension are attained in 1 to 4 hours. When naproxen oral suspension and immediate release naproxen tablets were given to fasted subjects (n=12) in a single-dose, crossover study, there were comparable pharmacokinetic narameters between the two formulations

	Naproxen Oral Suspension	Naproxen Tablets 500 mg
C <sub>max</sub> (mcg/mL)	64.3	71.1
T <sub>max</sub> (hours)	2.6	2.3
T <sub>1/2</sub> (hours)	16.8	16.3
AUC <sub>0-t</sub> (mcg·hr/mL)	1249	1218

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 (average trough Css 36.5, 49.2 and 56.4 mg/L with 500, 1000 and 1500 ing daily does of naproxen, respectively). 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 [see Use in Specific Populations (8.2)].

## Flimination

Naproxen is extensively metabolized in the liver to 6-0-desmethyl naproxen, and both parent and metabolites do not induce metabolizing enzymes. Both naproxen and 6-0-desmethyl naproxen are further metabolized to their respective acylglucuronide conjugated metabolites.

#### 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 maproxen (<1%), 6-0-desmthyl approxen (<1%) or their conjugates (66% to 92%). The plasma half-life of the naproxen anion in humans ranges from 12 to 17 hours. The corresponding half-lives of both naproxen's metabolites and conjugates are shorter than 12 hours, and their rates of excretion have been found to coincide closely with the rate of naproxen clearance from the plasma. Small amounts, 3% or less of the administered dose are excreted in the feces. In patients with renal failure metabolites may accumulate [see Warnings and Precautions (5.6)].

#### Specific Populations

Pediatric n pediatric patients aged 5 to 16 years with arthritis, plasma naproxen levels following a 5 mg/ It is because by the second second support of the second s following administration of nanroxen oral sug ension or tablets in pediatric patients

## Geriatric Studies indicate that although total plasma concentration of naproxen is unchanged, the unbound

plasma fraction of naproxen is increased in the elderly, although the unbound fraction is <1% of has the total naproxen concentration. Unbound trough naproxen concentrations in elderly subjects have been reported to range from 0.12% to 0.19% of total naproxen concentration, compared with 0.05% to 0.075% in vounger subjects.

## Hepatic Impairment

Naproxen pharmacokinetics has not been determined in subjects with hepatic insufficiency. 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 nd naproxen is increased.

<u>Cardiovascular Thrombotic Events</u> 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

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

nform 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 oral suspension and seek immediate medical therapy [see Warnings and Precautions (5.3)].

### Heart Failure and Edema

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

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

Serious Skin Reactions, including DRESS Advise patients to stop taking naproxen oral suspension immediately if they develop any type of rash or fever and to contact their healthcare provider as soon as possible *[see Warnings and* Precautions (5.9, 5.10)]

## Female Fertility

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

#### Fetal Toxicity

Inform preparat women to avoid use of naproxen oral suspension and other NSAIDs starting at 30 weeks gestation because of the risk of the premature closing of the fetal ductus arteriosus. If treatment with naproxen oral suspension is needed for a pregnant woman between about 20 to 30 weeks gestation, advise her that she may need to be monitored for oligohydramnios, if treatment continues for longer than 48 hours [see Warnings and Precautions (5.11) and Use in Specific Populations (8.1)].

#### Avoid Concomitant Use of NSAIDs

Inform patients that the concomitant use of naproxen oral suspension with other NSAIDs or salicylates (e.g., diffunisal, salsalate) is not recommended due to the increased risk of and Drug Interactions (7)]. Alert patients that NSAIDs may be present in "over the counter" medications for treatment of colds, fever, or insomnia

## Use of NSAIDS and Low-Dose Aspirin

The or non-not and converses aspirit Inform patients not to use low-dose aspirin concomitantly with naproxen oral suspension until they talk to their healthcare provider [see *Drug Interactions (7)*].

#### Dosing Instructions

ruct patients on how to measure and take the correct dose of naproxen oral suspension and to always use a calibrated measuring device when administering naproxen oral suspension to ensure the dose is measured and administered accurately [see Dosage and Administration (2.1)].

#### If the prescribed concentration is changed, instruct patients on how to correctly measure the new dose to avoid errors

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