

PRODUCT MONOGRAPH
INCLUDING PATIENT MEDICATION INFORMATION

PrTEVA-NAPROXEN SODIUM

PrTEVA-NAPROXEN SODIUM DS

Naproxen Sodium Tablets

Tablet, 275 mg and 550 mg, Oral

USP

ATC Code: M01AE02

Non-Steroidal Anti-Inflammatory Drug (NSAID)

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RECENT MAJOR LABEL CHANGES

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PART I: HEALTH PROFESSIONAL INFORMATION

1 INDICATIONS

TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS (naproxen sodium) is indicated for:

- The relief of mild to moderately severe pain, accompanied by inflammation in conditions such as musculoskeletal trauma and post-dental extraction.
- The relief of pain associated with post-partum cramping and dysmenorrhea.

For patients with an increased risk of developing cardiovascular and/or gastrointestinal adverse events, other management strategies that do NOT include the use of NSAIDs should be considered first. (See [2 CONTRAINDICATIONS](#) and [7 WARNINGS AND PRECAUTIONS](#))

Use of TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS should be limited to the lowest effective dose for the shortest possible duration of treatment in order to minimize the potential risk for cardiovascular or gastrointestinal adverse events. (See [2 CONTRAINDICATIONS](#) and [7 WARNINGS AND PRECAUTIONS](#))

TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS, as a NSAID, does NOT treat clinical disease or prevent its progression.

TEVA-NAPROXEN SODIUM and TEVA-NAPROXEN SODIUM DS, as a NSAID, only relieves symptoms and decreases inflammation for as long as the patient continues to take it.

1.1 Pediatrics

Pediatrics (< 18 years of age): TEVA-NAPROXEN SODIUM and TEVA-NAPROXEN SODIUM DS is contraindicated in children and adolescents less than 18 years of age since naproxen sodium has not been studied in subjects under the age of 18. See [2 CONTRAINDICATIONS](#).

1.2 Geriatrics

Geriatrics (> 65 years of age): Evidence from clinical studies and experience suggests that use in the geriatric population is associated with differences in safety or effectiveness. See [4 DOSAGE AND ADMINISTRATION](#) and [7.1.4 Geriatrics](#)

2 CONTRAINDICATIONS

- TEVA-NAPROXEN SODIUM and TEVA-NAPROXEN SODIUM DS are contraindicated in the peri-operative setting of coronary artery bypass graft surgery (CABG). Although naproxen sodium has NOT been studied in this patient population, a selective COX-2 inhibitor NSAID studied in such a setting has led to an increased incidence of

cardiovascular/thromboembolic events, deep surgical infections and sternal wound complications.

- the third trimester of pregnancy, because of risk of premature closure of the ductus arteriosus and prolonged parturition
- women who are breastfeeding, because of the potential for serious adverse reactions in nursing infants
- patients with severe uncontrolled heart failure
- patients who are hypersensitive to this drug or to any ingredient in the formulation, including any non-medicinal ingredient, or component of the container. For a complete listing, see [6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING](#).
- patients with a history of asthma, urticaria, or allergic-type reactions after taking ASA or other NSAIDs (i.e. complete or partial syndrome of ASA-intolerance - rhinosinusitis, urticaria/angioedema, nasal polyps, asthma). Fatal anaphylactoid reactions have occurred in such individuals. Individuals with the above medical problems are at risk of a severe reaction even if they have taken NSAIDs in the past without any adverse reaction. The potential for cross-reactivity between different NSAIDs must be kept in mind. See [7 WARNINGS AND PRECAUTIONS](#)
- patients with active gastric / duodenal / peptic ulcer, active GI bleeding.
- patients with cerebrovascular bleeding or other bleeding disorders
- patients with inflammatory bowel disease
- patients with severe liver impairment or active liver disease
- patients with severe renal impairment (creatinine clearance <30 mL/min or 0.5 mL/sec) or deteriorating renal disease (individuals with lesser degrees of renal impairment are at risk of deterioration of their renal function when prescribed NSAIDs and must be monitored). See [7 WARNINGS AND PRECAUTIONS](#)
- patients with known hyperkalemia. See [7 WARNINGS AND PRECAUTIONS](#)
- children and adolescents less than 18 years of age since naproxen sodium has not been studied in subjects under the age of 18.

3 SERIOUS WARNINGS AND PRECAUTIONS BOX

Serious Warnings and Precautions

- **Risk of Cardiovascular (CV) Adverse Events: Ischemic Heart Disease, Cerebrovascular Disease, Congestive Heart Failure (NYHA II-IV):**

TEVA-NAPROXEN SODIUM and TEVA-NAPROXEN SODIUM DS are non-steroidal anti-inflammatory drugs (NSAIDs). Use of some NSAIDs is associated with an increased incidence of cardiovascular adverse events (such as myocardial infarction, stroke or thrombotic events) which can be fatal. The risk may increase with duration of use. Patients with cardiovascular disease or risk factors for cardiovascular disease may be at greater risk.

Caution should be exercised in prescribing TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS to any patient with ischemic heart disease (including but NOT limited to acute myocardial infarction, history of myocardial infarction and/or angina), cerebrovascular disease (including but NOT limited to stroke, cerebrovascular accident, transient ischemic attacks and/or amaurosis fugax) and/or congestive heart failure (NYHA II-IV).

Use of NSAIDs, such as TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS, can promote sodium retention in a dose-dependent manner, through a renal mechanism, which can result in increased blood pressure and/or exacerbation of congestive heart failure.

Randomized clinical trials with naproxen sodium have not been designed to detect differences in cardiovascular events in a chronic setting. Therefore, caution should be exercised when prescribing TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS. See [7 WARNINGS AND PRECAUTIONS](#)

- **Risk of Gastrointestinal (GI) Adverse Events:**

Use of NSAIDs, such as TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS, is associated with an increased incidence of gastrointestinal adverse events (such as ulceration, bleeding, perforation and obstruction of the upper and lower gastrointestinal tract). See [7 WARNINGS AND PRECAUTIONS](#)

- **Risk in Pregnancy:**

Caution should be exercised in prescribing TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS during the first and second trimesters of pregnancy. Use of TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS at approximately 20 weeks of gestation or later may cause fetal renal dysfunction leading to oligohydramnios and neonatal renal impairment or failure (see [7.1.1 Pregnant Women](#)). TEVA-NAPROXEN SODIUM or TEVA-

NAPROXEN SODIUM DS is contraindicated for use during the third trimester because of risk of premature closure of the ductus arteriosus and uterine inertia (prolonged parturition). See [2 CONTRAINDICATIONS](#)

4 DOSAGE AND ADMINISTRATION

4.1 Dosing considerations

Use of TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS should be limited to the lowest effective dose for the shortest possible duration of treatment (see [1 INDICATIONS](#)). For all indications, treatment must be initiated with the lowest dose.

4.2 Recommended Dose and Dosage Adjustment

Adult:

The recommended starting dose of TEVA-NAPROXEN SODIUM for adults is two 275 mg tablets, followed by one 275 mg tablet every 6 to 8 hours, as required. The total daily dose should not exceed 5 tablets (1375 mg). Alternatively, one TEVA-NAPROXEN SODIUM DS tablet (550 mg naproxen sodium) given twice daily may be used.

4.4 Administration

TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS should be swallowed with food or milk.

4.5 Missed Dose

If a dose is missed, the patient should take it as soon as it is recognized. If it is almost time for the next dose, skip the missed dose and continue with the next scheduled dose. The patient should be instructed not take 2 doses at the same time.

5 OVERDOSAGE

Frequently observed signs and symptoms of overdose are drowsiness, dizziness, disorientation, indigestion, epigastric pain, abdominal discomfort, nausea, vomiting, transient alterations in liver function, hypoprothrombinemia, renal dysfunction, metabolic acidosis and apnea. Because TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS may be rapidly absorbed, high and early blood levels should be anticipated. A few patients have experienced convulsions, but it is not clear whether or not these were naproxen related.

Gastrointestinal bleeding may occur. Hypertension, acute renal failure, respiratory depression and coma may occur after the ingestion of NSAIDs but are rare.

Anaphylactoid reactions have been repeated with therapeutic ingestion of NSAIDs, and may occur following an overdose.

Patients should be managed by symptomatic and supportive care following NSAIDs overdose. There are no specific antidotes. Prevention of further absorption (e.g. activated charcoal) may be indicated in patients seen within 4 hours of ingestion with symptoms or following a large overdose. Forced diuresis, alkalinization of urine, haemodialysis, or haemoperfusion may not be useful due to high protein binding.

For management of a suspected drug overdose, contact your regional poison control centre.

6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING

Table 1 – Dosage Forms, Strengths, Composition and Packaging

Route of Administration	Dosage Form / Strength / Composition	Non-medicinal Ingredients
Oral	Film-Coated Tablet / 275 mg and 550 mg of naproxen sodium	Colloidal silicon dioxide, magnesium stearate, microcrystalline cellulose, povidone, purified water, sodium lauryl sulfate and sodium starch glycolate. Coating: FD&C Blue #2, hypromellose, polyethylene glycol, polysorbate and titanium dioxide.

TEVA-NAPROXEN SODIUM tablets are blue, oval-shaped, bi-convex, film-coated tablets, engraved NOVO on one side and 275 on the reverse. Available in bottles of 100 and 500 tablets.

TEVA-NAPROXEN SODIUM DS tablets are film-coated, blue oval shaped, with white cores engraved 'novo' on one side and '550' on the other side. Available in bottles of 100 and 500 tablets.

7 WARNINGS AND PRECAUTIONS

Please see [3 SERIOUS WARNINGS AND PRECAUTIONS BOX](#)

General

Frail or debilitated patients may tolerate side effects less well and therefore special care should be taken in treating this population. **To minimize the potential risk for an adverse event, the lowest effective dose should be used for the shortest possible duration.** As with other NSAIDs, caution should be used in the treatment of elderly patients who are more likely to be suffering

from impaired renal, hepatic or cardiac function. For high risk patients, alternate therapies that do not involve NSAIDs should be considered.

TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS is NOT recommended for use with other NSAIDs, with the exception of low-dose ASA for cardiovascular prophylaxis, because of the absence of any evidence demonstrating synergistic benefits and the potential for additive adverse reactions. See [9 DRUG INTERACTIONS](#)

TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS should not be used concomitantly with the related drug TEVA-NAPROXEN since they circulate in plasma as the naproxen anion.

Carcinogenesis and Mutagenesis

See [16 NON-CLINICAL TOXICOLOGY](#)

Cardiovascular

TEVA-NAPROXEN SODIUM and TEVA-NAPROXEN SODIUM DS are non-steroidal anti-inflammatory drugs (NSAIDs). Use of some NSAIDs is associated with an increased incidence of cardiovascular adverse events (such as myocardial infarction, stroke or thrombotic events) which can be fatal. The risk may increase with duration of use. Patients with cardiovascular disease or risk factors for cardiovascular disease may be at greater risk.

Caution should be exercised in prescribing TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS to patients with risk factors for cardiovascular disease, cerebrovascular disease or renal disease, such as any of the following (NOT an exhaustive list)

- **Hypertension**
- **Dyslipidemia / Hyperlipidemia**
- **Diabetes Mellitus**
- **Congestive Heart Failure (NYHA I)**
- **Coronary Artery Disease (Atherosclerosis)**
- **Peripheral Arterial Disease**
- **Smoking**
- **Creatinine Clearance < 60 mL/min or 1 mL/sec**

Use of NSAIDs, such as TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS, can lead to new hypertension or can worsen pre-existing hypertension, either of which may increase the risk of cardiovascular events as described above. Thus blood pressure should be monitored regularly. Consideration should be given to discontinuing TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS should hypertension either develop or worsen with its use.

Use of NSAIDs, such as TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS, can induce fluid retention and edema, and may exacerbate congestive heart failure, through a renally-mediated mechanism. See [7 WARNINGS AND PRECAUTIONS](#)

For patients with a high risk of developing an adverse CV event, other management strategies that do NOT include the use of NSAIDs should be considered first. **To minimize the potential risk for an adverse CV event, the lowest effective dose should be used for the shortest possible duration.**

Driving and Operating Machinery

There are no specific studies about effects on the ability to drive vehicles and to use machinery. Patients who experience visual disturbances or other central nervous system disturbances should refrain from these activities.

Concurrent use of alcohol with an NSAID may increase the risk of gastrointestinal side effects, including ulceration and hemorrhage.

Endocrine and Metabolism

Corticosteroids:

TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS is NOT a substitute for corticosteroids. It does NOT treat corticosteroid insufficiency. Abrupt discontinuation of corticosteroids may lead to exacerbation of corticosteroid-responsive illness. Patients on prolonged corticosteroid therapy should have their therapy tapered slowly if a decision is made to discontinue corticosteroids. See [9 DRUG INTERACTIONS](#)

Gastrointestinal

Serious GI toxicity (sometimes fatal), such as ulceration, inflammation, gastrointestinal bleeding, perforation and obstruction of the upper and lower gastrointestinal tract, can occur at any time, with or without warning symptoms, in patients treated with NSAIDs, such as TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS. Minor upper GI problems, such as dyspepsia, commonly occur at any time. Health care providers should remain alert for ulceration and bleeding in patients treated with TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS, even in the absence of previous GI tract symptoms. Most spontaneous reports of fatal GI events are in elderly or debilitated patients and therefore special care should be taken in treating this population. **To minimize the potential risk for an adverse GI event, the lowest effective dose should be used for the shortest possible duration.** For high risk patients, alternate therapies that do not involve NSAIDs should be considered. See [7 WARNINGS AND PRECAUTIONS](#)

Patients should be informed about the signs and/or symptoms of serious GI toxicity and instructed to discontinue using TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS and seek emergency medical attention if they experience any such symptoms. The utility of periodic laboratory monitoring has NOT been demonstrated, nor has it been adequately assessed. Most patients who develop a serious upper GI adverse event on NSAID therapy have no symptoms.

Upper GI ulcers, gross bleeding or perforation, caused by NSAIDs, appear to occur in approximately 1% of patients treated for 3-6 months, and in about 2-4% of patients treated for one year. These trends continue, thus increasing the likelihood of developing a serious GI event at some time during the course of therapy. Even short-term therapy has its risks.

Caution should be taken if prescribing TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS to patients with a prior history of peptic / duodenal ulcer disease or gastrointestinal bleeding as these individuals have a greater than 10-fold higher risk for developing a GI bleed when taking a NSAID than patients with neither of these risk factors. Other risk factors for GI ulceration and bleeding include the following: *Helicobacter pylori* infection, increased age, prolonged use of NSAID therapy, excess alcohol intake, smoking, poor general health status or concomitant therapy with any of the following:

- Anti-coagulants (e.g. warfarin)
- Anti-platelet agents (e.g. ASA, clopidogrel)
- Oral corticosteroids (e.g. prednisone)
- Selective Serotonin Reuptake Inhibitors (SSRIs) (e.g. citalopram, fluoxetine, paroxetine, sertraline)

Genitourinary

Some NSAIDs are associated with persistent urinary symptoms (bladder pain, dysuria, urinary frequency), hematuria or cystitis. The onset of these symptoms may occur at any time after the initiation of therapy with a NSAID. Should urinary symptoms occur, in the absence of an alternate explanation, treatment with TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS should be stopped to ascertain if symptoms disappear. This should be done before urological investigations or treatments are carried out.

Hematologic

NSAIDs inhibiting prostaglandin biosynthesis interfere with platelet function to varying degrees; patients who may be adversely affected by such an action, such as those on anti-coagulants or suffering from haemophilia or platelet disorders should be carefully observed when TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS is administered.

Anti-coagulants:

Numerous studies have shown that the concomitant use of NSAIDs and anticoagulants increases the risk of bleeding. Concurrent therapy of TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS with warfarin requires close monitoring of the international normalized ratio (INR).

Even with therapeutic INR monitoring, increased bleeding may occur.

Anti-platelet Effects:

NSAIDs inhibit platelet aggregation and have been shown to prolong bleeding time in some patients. Unlike acetylsalicylic acid (ASA), their effect on platelet function is quantitatively less, or of shorter duration, and is reversible.

Naproxen sodium and other NSAIDs have no proven efficacy as anti-platelet agents and should NOT be used as a substitute for ASA or other anti-platelet agents for prophylaxis of cardiovascular thromboembolic diseases. Anti-platelet therapies (e.g. ASA) should NOT be discontinued. There is some evidence that use of NSAIDs with ASA can markedly attenuate the cardioprotective effects of ASA. See [9 DRUG INTERACTIONS](#)

Concomitant administration of TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS with low dose ASA increases the risk of GI ulceration and associated complications.

Blood dyscrasias:

Blood dyscrasias (such as neutropenia, leukopenia, thrombocytopenia, aplastic anemia and agranulocytosis) associated with the use of NSAIDs are rare, but could occur with severe consequences.

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

Hepatic/Biliary/Pancreatic

As with other NSAIDs, borderline elevations of one or more liver enzyme tests (AST, ALT, alkaline phosphatase) may occur in up to 15% of patients. These abnormalities may progress, may remain essentially unchanged, or may be transient with continued therapy.

Chronic alcoholic liver disease and probably also other forms of cirrhosis reduce the total plasma concentration of naproxen, but the plasma concentration of unbound naproxen is increased. The implication of this finding for naproxen dosing is unknown, but caution is advised when high doses are required. It is prudent to use the lowest effective dose

A patient with symptoms and/or signs suggesting liver dysfunction, or in whom an abnormal liver function test has occurred, should be evaluated for evidence of the development of a more severe hepatic reaction while on therapy with this drug. Severe hepatic reactions including jaundice and cases of fatal hepatitis, liver necrosis and hepatic failure, some of them with fatal outcomes, have been reported with NSAIDs.

Although such reactions are rare, if abnormal liver tests persist or worsen, if clinical signs and symptoms consistent with liver disease develop (e.g. jaundice), or if systemic manifestations occur (e.g. eosinophilia, associated with rash, etc.), this drug should be discontinued.

If there is a need to prescribe this drug in the presence of impaired liver function, it must be done under strict observation.

Immune

See [7 WARNINGS AND PRECAUTIONS – Infection - Aseptic Meningitis](#)

Infection

TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS, in common with other NSAIDs, may mask signs and symptoms of an underlying infectious disease.

Aseptic Meningitis: Rarely, with some NSAIDs, the symptoms of aseptic meningitis (stiff neck, severe headaches, nausea and vomiting, fever or clouding of consciousness) have been observed. Patients with autoimmune disorders (systemic lupus erythematosus, mixed connective tissue diseases, etc.) seem to be pre-disposed. Therefore, in such patients, the health care provider must be vigilant to the development of this complication.

Monitoring and Laboratory Tests

Cardiovascular: Patients on long-term treatment with TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS should have their blood pressure monitored regularly and an ophthalmic examination should be carried out at periodic intervals. See [7 WARNINGS AND PRECAUTIONS](#)

Hematology: Hemoglobin, hematocrit, red blood cells (RBCs), white blood cells (WBCs), and platelets should be checked in patients on long-term treatment with TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS. Additionally, concurrent therapy with warfarin requires close monitoring of the international normalized ratio (INR). See [7 WARNINGS AND PRECAUTIONS](#)

Monitoring of plasma lithium concentration is recommended when stopping or starting TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS therapy. See [9 DRUG INTERACTIONS](#)

Hepatic: Serum transaminase and bilirubin should be monitored regularly during TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS therapy. See [7 WARNINGS AND PRECAUTIONS](#)

Renal: Serum creatinine, creatine clearance and serum urea should be checked in patient during TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS therapy. Electrolytes including serum potassium should be monitored periodically. See [7 WARNINGS AND PRECAUTIONS](#)

Pregnancy: If TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS are administered in the middle (approximately 20 weeks) to the end of the second trimester, it is recommended that pregnant women on TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS be closely monitored for amniotic fluid volume since TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS may result in reduction of amniotic fluid volume and even oligohydramnios. See [7.1 Special Populations](#)

TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS are contraindicated for use in the third trimester of pregnancy.

Urinary: The administration of TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS may result in increased urinary values for 17-ketogenic steroids because of an interaction between the drug and/or its metabolites with m-dinitrobenzene used in this assay. Although 17-hydroxy corticosteroid measurements (Porter Silber test) do not appear to be artifactually altered, it is suggested that therapy with TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS be temporarily discontinued 48 hours before adrenal function tests are performed. The drug may interfere with some urinary assays of 5-hydroxy indoleacetic acid (5HIAA). See [7 WARNINGS AND PRECAUTIONS](#) and [9 DRUG INTERACTIONS](#)

Neurologic

Some patients may experience drowsiness, dizziness, blurred vision, vertigo, tinnitus, hearing loss, insomnia or depression with the use of NSAIDs, such as TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS. If patients experience such adverse reaction(s), they should exercise caution in carrying out activities that require alertness.

Ophthalmologic

Blurred and/or diminished vision has been reported with the use of NSAIDs. If such symptoms develop TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS should be discontinued and an ophthalmologic examination performed. Ophthalmologic examination should be carried out at periodic intervals in any patient receiving TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS for an extended period of time.

Peri-Operative Considerations

See [2 CONTRAINDICATIONS](#)

Psychiatric

Some patients may experience insomnia or depression with the use of NSAIDs, such as TEVA-NAPROXEN SODIUM / TEVA-NAPROXEN SODIUM DS.

Renal

Long term administration of NSAIDs to animals has resulted in renal papillary necrosis and other abnormal renal pathology. In humans, there have been reports of acute interstitial nephritis, hematuria, low grade proteinuria and occasionally nephrotic syndrome.

Renal insufficiency due to NSAID use is seen in patients with pre-renal conditions leading to reduction in renal blood flow or blood volume. Under these circumstances, renal prostaglandins help maintain renal perfusion and glomerular filtration rate (GFR). In these patients, administration of a NSAID may cause a reduction in prostaglandin synthesis leading to impaired renal function. Patients at greatest risk of this reaction are those with pre-existing renal insufficiency (GFR < 60 mL/min or 1 mL/s), dehydrated patients, patients on salt restricted diets, those with congestive heart failure, cirrhosis, liver dysfunction, taking angiotensin-converting enzyme inhibitors, angiotensin receptor blockers, cyclosporin, diuretics, and those who are elderly. Serious or life-threatening renal failure has been reported in patients with normal or impaired renal function after short term therapy with NSAIDs. Even patients at risk who demonstrate the ability to tolerate a NSAID under stable conditions may decompensate during periods of added stress (e.g. dehydration due to gastroenteritis). Discontinuation of NSAIDs is usually followed by recovery to the pre-treatment state.

Caution should be used when initiating treatment with NSAIDs, such as TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS, in patients with considerable dehydration. Such patients should be rehydrated prior to initiation of therapy. Caution is also recommended in patients with pre-existing kidney disease.

Advanced Renal Disease: See [2 CONTRAINDICATIONS](#)

Fluid and Electrolyte Balance: Use of NSAIDs, such as TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS, can promote sodium retention in a dose-dependent manner, which can lead to fluid retention and edema, and consequences of increased blood pressure and exacerbation of congestive heart failure. Thus, caution should be exercised in prescribing TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS in patients with a history of congestive heart failure, compromised cardiac function, hypertension, increased age or other conditions predisposing to fluid retention. See [7 WARNINGS AND PRECAUTIONS](#)

Use of NSAIDs, such as TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS, can increase the risk of hyperkalemia, especially in patients with diabetes mellitus, renal failure, increased age, or those receiving concomitant therapy with adrenergic blockers, angiotensin-converting enzyme inhibitors, angiotensin-II receptor antagonists, cyclosporin, or some diuretics.

Electrolytes should be monitored periodically. See [2 CONTRAINDICATIONS](#)

Each TEVA-NAPROXEN SODIUM tablet contains approximately 25 mg of sodium and each TEVA-NAPROXEN SODIUM DS tablet contains approximately 50 mg of sodium. This should be considered in patients whose overall intake of sodium must be markedly restricted.

It is possible that patients with questionable or compromised cardiac function may be at greater risk when taking TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS.

Reproductive Health: Female and Male Potential

- **Fertility**

The use of TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS, as with any drug known to inhibit cyclooxygenase/ prostaglandin synthesis, may impair fertility and is not recommended in women attempting to conceive. Therefore, in women who have difficulties conceiving, or who are undergoing investigation of infertility, withdrawal of TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS should be considered.

Respiratory

ASA-induced asthma is an uncommon but very important indication of ASA and NSAID sensitivity. It occurs more frequently in patients with asthma who have nasal polyps.

Sensitivity / Resistance

Anaphylactoid Reactions: As with NSAIDs in general, anaphylactoid reactions have occurred in patients without known prior exposure to TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS. In post-marketing experience, rare cases of anaphylactic/ anaphylactoid reactions and angioedema have been reported in patients receiving naproxen sodium. TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS should NOT be given to patients with the ASA-triad. This symptom complex typically occurs in asthmatic patients who experience rhinitis with or without nasal polyps, or who exhibit severe, potentially fatal bronchospasm after taking ASA or other NSAIDs. See [2 CONTRAINDICATIONS](#)

ASA-Intolerance: TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS should NOT be given to patients with complete or partial syndrome of ASA-intolerance (rhinosinusitis, urticaria/angioedema, nasal polyps, asthma) in whom asthma, anaphylaxis, urticaria/angioedema, rhinitis or other allergic manifestations are precipitated by ASA or other NSAIDs. Fatal anaphylactoid reactions have occurred in such individuals. As well, individuals with the above medical problems are at risk of a severe reaction even if they have taken NSAIDs in the past without any adverse reaction. See [2 CONTRAINDICATIONS](#)

Cross-sensitivity: Patients sensitive to one NSAID may be sensitive to any of the other NSAIDs as well.

Skin

Serious skin reactions: Use of some NSAIDs, such as naproxen sodium, have been associated with rare post-market cases of serious, fatal or otherwise life-threatening skin reactions, including:

- Drug reaction with eosinophilia and systemic symptoms (DRESS)
- Stevens-Johnson syndrome (SJS)
- Toxic epidermal necrolysis (TEN)
- exfoliative dermatitis
- erythema multiforme.

Patients appear to be at higher risk for these events early in the course of therapy, with the onset of cases usually occurring within the first month of treatment. These reactions may be reversible if the causative agent is discontinued and appropriate treatment instituted. Patients should be advised that they should discontinue their NSAID at the first appearance of a skin rash, mucosal lesions or any other sign of hypersensitivity, and contact their physician immediately for assessment and advice, including which therapies to discontinue.

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, and 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.

7.1 Special Populations

7.1.1 Pregnant Women

TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS is contraindicated for use during the third trimester of pregnancy because of risk of premature closure of the ductus arteriosus and the potential to prolong parturition. See [2 CONTRAINDICATIONS](#) and [16 NON-CLINICAL TOXICOLOGY](#). Caution is recommended in prescribing TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS during the first and second trimesters of pregnancy, particularly from the middle to end of the second trimester of pregnancy (onset at approximately 20 weeks) due to possible fetal renal dysfunction leading to oligohydramnios and, in some cases, neonatal renal impairment or failure.

Published studies and postmarketing reports describe maternal NSAID use at approximately 20 weeks gestation or later in pregnancy associated with fetal renal dysfunction leading to oligohydramnios, and in some cases, neonatal renal impairment or failure. NSAIDs were shown

to cause significant reduction in fetal urine production prior to reduction of amniotic fluid volume. There have also been a limited number of case reports of maternal NSAID use and neonatal renal dysfunction and renal impairment without oligohydramnios, some of which were irreversible, even after treatment discontinuation.

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. 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 after careful consideration of the benefit-risk, NSAID treatment is considered necessary to be administered anywhere from the middle (onset at approximately 20 weeks) to the end of the second trimester of pregnancy, the use should be limited to the lowest effective dose and shortest duration possible. It is also recommended that ultrasound monitoring of amniotic fluid be considered if TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS treatment extends beyond 48 hours and that NSAIDs treatment be discontinued if oligohydramnios occurs, followed by appropriate medical follow up.

Inhibition of prostaglandin synthesis may adversely affect pregnancy and/or the embryo-foetal development. Data from epidemiological studies suggest an increased risk of miscarriage and of cardiac malformation after use of a prostaglandin synthesis inhibitor in early pregnancy.

In animals, administration of a prostaglandin synthesis inhibitor has been shown to result in increased pre- and post-implantation loss and embryo-foetal lethality. In addition, increased incidences of various malformations, including cardiovascular, have been reported in animals given a prostaglandin synthesis inhibitor during the organogenetic period.

TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS is not recommended in labour and delivery because, through their prostaglandin synthesis inhibitory effect, they may adversely affect fetal circulation and inhibit uterine contractions, thus increasing the risk of uterine hemorrhage.

7.1.2 Breast-feeding

TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS is contraindicated in breast-feeding women. See [2 CONTRAINDICATIONS](#)

7.1.3 Pediatrics

Pediatrics (< 18 years of age): Based on the data submitted and reviewed by Health Canada, the safety and efficacy of naproxen sodium in pediatric patients has not been established; therefore, Health Canada has not authorized an indication for pediatric use. See [2 CONTRAINDICATIONS](#)

7.1.4 Geriatrics

Geriatrics (> 65 years of age): Patients older than 65 years (referred to in this document as older or elderly) and frail or debilitated patients are more susceptible to a variety of adverse reactions from NSAIDs. The incidence of these adverse reactions increases with dose and duration of treatment. In addition, these patients are less tolerant to ulceration and bleeding. Most reports of fatal GI events are in this population. Older patients are also at risk of lower esophageal injury including ulceration and bleeding. For such patients, consideration should be given to a starting dose lower than the one usually recommended, with individual adjustment when necessary and under close supervision.

8 ADVERSE REACTIONS

8.1 Adverse Reaction Overview

The most common adverse reactions encountered with nonsteroidal anti-inflammatory drugs are gastrointestinal, of which peptic ulcer, with or without bleeding, is the most severe. Fatalities have occurred particularly in the elderly.

As with all drugs in this class, the frequency and severity of adverse events depends on several factors: the dose of the drug and duration of treatment; the age, the sex, physical condition of the patient; any concurrent medical diagnoses or individual risk factors.

8.2 Clinical Trial Adverse Reactions

Clinical trials are conducted under very specific conditions. The adverse reaction rates observed in the clinical trials may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse reaction information from clinical trials may be useful in identifying and approximating rates of adverse drug reactions in real-world use.

Adverse reactions reported in controlled clinical trials are listed below.

Table 2: Most Common Clinical Trial Adverse Drug Reactions (3%-9% and 1%-3%)

Body System	Incidence	Adverse Reaction
Gastrointestinal	3%-9%	Heartburn, constipation, abdominal pain, nausea
	1%-3%	Diarrhea, dyspepsia, stomatitis, diverticulitis
Central Nervous System	3%-9%	Headache, dizziness, drowsiness
	1%-3%	Light-headedness, vertigo, depression, fatigue. Occasionally patients had to discontinue treatment because of the severity of some of these complaints (headache and dizziness).

Dermatologic	3%-9%	Pruritus, ecchymoses, skin eruptions
	1%-3%	Sweating, purpura
Cardiovascular	3%-9%	Dyspnea, peripheral edema
	1%-3%	Palpitations
Special Senses	3%-9%	Tinnitus
	1%-3%	Hearing disturbances
General	1%-3%	Thirst

8.3 Less Common Clinical Trial Adverse Reactions

Table 3: Less Common Clinical Trial Adverse Drug Reactions (<1%)

Gastrointestinal:	gastrointestinal bleeding, hematemesis, melena, peptic ulceration with or without bleeding and/or perforation, vomiting, ulcerative stomatitis.
Central Nervous System:	inability to concentrate, malaise, myalgia, insomnia and cognitive dysfunction (i.e. decreased attention span, loss of short-term memory, difficulty with calculations).
Dermatologic:	alopecia, urticaria, skin rash, erythema multiforme, Stevens-Johnson syndrome, DRESS (drug reaction with eosinophilia and systemic symptoms), epidermal necrolysis, photosensitive dermatitis, exfoliative dermatitis, erythema nodosum.
Hepatic:	abnormal liver function tests, jaundice, cholestasis and hepatitis.
Cardiovascular:	congestive heart failure and vasculitis.
Renal:	Glomerular nephritis, hematuria, interstitial nephritis, nephrotic syndrome, nephropathy and tubular necrosis.
Hematologic:	Eosinophilia, granulocytopenia, leukopenia, thrombocytopenia, agranulocytosis, aplastic anemia and hemolytic anemia.
Special Senses:	hearing impairment and visual disturbances.
Reproductive, female:	infertility
General:	muscle weakness, anaphylactoid reactions, menstrual disorders, pyrexia (chills and fever), angioneurotic edema, hyperglycemia, hypoglycemia and eosinophilic pneumonitis.

8.5 Post-Market Adverse Reactions

Additional reports of serious adverse events temporally associated with naproxen sodium during worldwide post-marketing experience are included below. Because these events are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or clearly establish a causal relationship to naproxen sodium exposure.

Gastrointestinal:	Inflammation, bleeding (sometimes fatal, particularly in the elderly), ulceration, perforation and obstruction of the upper or lower gastrointestinal tract. Oesophagitis, gastritis, pancreatitis, stomatitis. Exacerbation of ulcerative colitis and Crohn's disease. Heartburn, dyspepsia, abdominal pain, nausea, vomiting, diarrhea, flatulence, constipation, haematemesis, melaena.
Infections:	aseptic meningitis
Blood and Lymphatic System Disorders:	agranulocytosis, aplastic anaemia, eosinophilia, haemolytic anaemia, leucopenia, thrombocytopenia
Immune System Disorders:	anaphylactoid reactions
Metabolic and Nutrition Disorders:	hyperkalemia
Psychiatric Disorders:	depression, dream abnormalities, insomnia
Nervous System Disorders:	dizziness, drowsiness, headache, lightheadedness, retrobulbar optic neuritis convulsions, cognitive dysfunction, inability to concentrate
Eye Disorders:	visual disturbances, corneal opacity, papillitis, papilloedema
Ear and Labyrinth Disorders:	hearing impairment, hearing disturbances, tinnitus, vertigo
Cardiac Disorders:	palpitations, cardiac failure has been reported in association with NSAID treatment, congestive heart failure
Vascular Disorders:	hypertension, vasculitis Clinical trial and epidemiological data suggest that use of coxibs and some NSAIDs (particularly at high doses and in long term treatment) may be associated with a small increased risk of arterial thrombotic events (for example myocardial infarction or stroke).
Respiratory, Thoracic and Mediastinal Disorders:	dyspnoea, pulmonary oedema, asthma, eosinophilic pneumonitis.
Hepatobiliary Disorders:	Hepatitis (some cases of hepatitis have been fatal), jaundice.
Skin and Subcutaneous Tissue Disorders:	ecchymoses, itching (pruritus), purpura, skin eruptions, sweating, alopecia, epidermal necrolysis, very rarely toxic epidermal necrolysis, erythema multiforme, bullous reactions, including Stevens-Johnson syndrome, DRESS (drug reaction with eosinophilia and systemic symptoms), erythema nodosum, fixed drug eruption, lichen planus, pustular reaction, skin rashes, SLE, urticaria, photosensitivity reactions, including rare cases resembling porphyria cutanea tarda ("pseudoporphyria") or epidermolysis bullosa and angioneurotic oedema. If skin fragility, blistering or other symptoms suggestive of

	pseudoporphyria occur, treatment should be discontinued and the patient monitored.
Musculoskeletal and Connective Tissue Disorders:	myalgia, muscle weakness.
Renal and Urinary Disorders:	haematuria, interstitial nephritis, nephrotic syndrome, renal disease, renal failure, renal papillary necrosis
Reproductive System and Breast Disorders:	female infertility
General Disorders and Administration Site Conditions:	oedema, thirst, pyrexia (chills and fever), malaise
Investigations:	abnormal liver function tests, raised serum creatinine

9 DRUG INTERACTIONS

9.3 Drug-Behavioural Interactions

There are no specific studies about effects on the ability to drive vehicles and to use machinery. Patients who experience visual disturbances or other central nervous system disturbances should refrain from these activities.

Concurrent use of alcohol with an NSAID may increase the risk of gastrointestinal side effects, including ulceration and hemorrhage.

9.4 Drug-Drug Interactions

The drugs listed in this table are based on either drug interaction case reports or studies, or potential interactions due to the expected magnitude and seriousness of the interaction (i.e., those identified as contraindicated).

Table 4 - Established or Potential Drug-Drug Interactions

Proper/Common name	Source of Evidence	Effect	Clinical comment
Acetylsalicylic acid (ASA) or other NSAIDs	CT	<ul style="list-style-type: none"> The concomitant use of naproxen sodium and other NSAIDs (such as ASA and ibuprofen) does not produce any greater therapeutic effect than the use of NSAIDs alone. The concomitant use of an 	<ul style="list-style-type: none"> Concomitant use of TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS and analgesic doses of ASA or other NSAIDs is not recommended because of the increased risk of bleeding. See 7 WARNINGS AND PRECAUTIONS

		<p>NSAID and ASA (such as aspirin) was associated with a significantly increased incidence of GI adverse reactions as compared to use of the NSAID alone.</p> <ul style="list-style-type: none"> • Some NSAIDs (e.g. ibuprofen and naproxen) may interfere with the anti-platelet effects of low dose ASA, possibly by competing with ASA for access to the active site of cyclooxygenase-1. 	
ACE Inhibitors, Angiotensin Receptor Blockers, and Beta-Blockers	T	<ul style="list-style-type: none"> • NSAIDs may diminish the antihypertensive effect of ACE inhibitors, ARBs, or beta-blockers (including propranolol). • In patients who are elderly, volume-depleted (including those on diuretic therapy), or have RI, co-administration of an NSAID with ACE inhibitors or ARBs may result in deterioration of renal function, including possible acute renal failure and hyperkalemia. These effects are usually reversible. 	<ul style="list-style-type: none"> • Blood pressure and renal function (including electrolytes) should be monitored more closely in this situation, as occasionally there can be a substantial increase in blood pressure. See Z WARNINGS AND PRECAUTIONS
Albumin-Bound Drugs	T	<ul style="list-style-type: none"> • Naproxen is highly bound to plasma albumin; it thus has a theoretical potential for interaction with other albumin-bound drugs such as coumarin-type anticoagulants, warfarin, sulfonamide or sulphonylureas, hydantoins, other NSAIDs, and ASA. 	<ul style="list-style-type: none"> • Patients should be under careful observation for adjustment of dose if required.
Antacids	N/A	<ul style="list-style-type: none"> • Concomitant administration of some antacids (magnesium oxide or aluminum hydroxide) 	<ul style="list-style-type: none"> • Concomitant administration is not recommended.

		and sucralfate can delay the absorption of naproxen.	
Anti-coagulants	CT	<ul style="list-style-type: none"> • Naproxen and anticoagulants such as warfarin have a synergistic effect on bleeding. • The concomitant use of naproxen and anticoagulants have an increased risk of serious bleeding compared to the use of either drug alone. 	<ul style="list-style-type: none"> • Anticoagulation/INR should be monitored and warfarin dosage adjustments. See 7 WARNINGS AND PRECAUTIONS
Anti-platelets Agents (including ASA)	CT	<ul style="list-style-type: none"> • There is an increased risk of bleeding, via inhibition of platelet function, when anti-platelet agents are combined with naproxen. 	<ul style="list-style-type: none"> • Monitor patients for signs of bleeding. See 7 WARNINGS AND PRECAUTIONS
Cyclosporin and Tacrolimus	T	<ul style="list-style-type: none"> • Inhibition of renal prostaglandin activity by NSAIDs may increase the nephrotoxic effect of cyclosporin or tacrolimus. 	<ul style="list-style-type: none"> • Patients should be monitored for necessary dosage adjustment. • Monitor patients for signs of worsening renal function.
Cholestyramine	N/A	<ul style="list-style-type: none"> • Concomitant administration of cholestyramine can delay the absorption of naproxen. 	<ul style="list-style-type: none"> • Concomitant administration is not recommended.
Digoxin	C	<ul style="list-style-type: none"> • The concomitant use of naproxen with digoxin has been reported to increase the serum concentration and prolong the half-life of digoxin which may result in digitalis toxicity. 	<ul style="list-style-type: none"> • Monitor serum digoxin levels.
Diuretics	CT	<ul style="list-style-type: none"> • Clinical studies as well as post-marketing observations have shown that NSAIDs can reduce the effect of diuretics. • This effect has been attributed to the NSAID 	<ul style="list-style-type: none"> • Observe patients for signs of worsening renal function, in addition to assuring diuretic efficacy including antihypertensive effects. See 7 WARNINGS

		inhibition of renal prostaglandin synthesis.	AND PRECAUTIONS
Glucocorticoids	CT	<ul style="list-style-type: none"> The concomitant use of NSAIDs and oral glucocorticoids increases the risk of GI adverse events such as ulceration and bleeding, especially in older (>65 years of age) patients. 	<ul style="list-style-type: none"> Monitor patients particularly those over 65 years of age for signs of bleeding. See Z WARNINGS AND PRECAUTIONS
Lithium	CT	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Monitor patients for plasma lithium concentrations when stopping or starting a NSAID.
Methotrexate	N/A	<ul style="list-style-type: none"> Concomitant use of NSAIDs and methotrexate may increase the risk for methotrexate toxicity (e.g., neutropenia, thrombocytopenia, renal dysfunction). 	<ul style="list-style-type: none"> Monitor patients for methotrexate toxicity.
Pemetrexed	CT	<ul style="list-style-type: none"> Concomitant use of naproxen sodium and pemetrexed may increase the risk of pemetrexed-associated myelosuppression, renal, and GI toxicity. 	<ul style="list-style-type: none"> In patients with RI whose creatinine clearance ranges from 45 to 79 mL/min, monitor for myelosuppression, renal and GI toxicity.
Probenecid	CT	<ul style="list-style-type: none"> Increases naproxen anion plasma levels and extends its plasma half-life 	<ul style="list-style-type: none"> Patients should be observed for adjustment of dose if required.

		significantly.	
Selective serotonin reuptake inhibitors (SSRIs)	C	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Monitor patients for signs of bleeding. See 7 WARNINGS AND PRECAUTIONS
Quinolone antibacterials	C	<ul style="list-style-type: none"> • There have been isolated reports of convulsions which may have been due to concomitant use of quinolones and NSAIDs. 	<ul style="list-style-type: none"> • Patients should be observed for adjustment of dose if required.

Legend: C = Case Study; CT = Clinical Trial; T = Theoretical; GI = Gastrointestinal; CV = Cardiovascular; INR = International normalized ratio; PD = Pharmacodynamic; ASA = Acetylsalicylic acid; NSAID = Non-Steroidal Anti-Inflammatory Drug; ACE = Angiotensin converting enzyme; ARB = Angiotensin Receptor Blockers; RI = Renal impairment;

9.5 Drug-Food Interactions

Concomitant administration of food can delay the absorption of naproxen, but does not affect its extent of absorption.

9.6 Drug-Herb Interactions

Interactions with herbal products have not been established.

9.7 Drug-Laboratory Test Interactions

See [7 WARNINGS AND PRECAUTIONS - Monitoring and Laboratory Tests](#)

10 CLINICAL PHARMACOLOGY

10.1 Mechanism of Action

Naproxen sodium has demonstrated analgesic and anti-inflammatory properties in human clinical studies and in classical animal test systems. It exhibits an anti-inflammatory effect even in adrenalectomized animals and therefore its action is not mediated through the pituitary-

adrenal axis. It is not a corticosteroid. It inhibits prostaglandin synthetase, as do certain other non-steroidal analgesic/anti-inflammatory agents. As with other agents, however, the exact mechanism of its anti-inflammatory and analgesic actions is not known.

10.2 Pharmacodynamics

A variety of pharmacologic tests were employed in assessing the analgesic and anti-inflammatory activities of naproxen sodium. It has been convincingly shown in man and animals that regardless of which drug (naproxen or naproxen sodium) is administered, the circulating moiety in the plasma is the same naproxen anion. The drug was active in all tests used to identify analgesic and anti-inflammatory activities where an inflammatory component was present. There were no discrepancies or exceptions evident.

Analgesic Activity: Depending on the assay used, naproxen sodium had less analgesic activity than indomethacin; it was more active than ASA, phenylbutazone and mefenamic acid. Like ASA, phenylbutazone and other “anti-inflammatory analgesics”, naproxen sodium raised the pain threshold only in experimental pain states involving inflammation (unlike morphine, which raises the pain threshold in both inflamed and uninflamed states). Further support for this contention is the fact that naproxen sodium did not raise heat-induced pain threshold responses as shown in the “Hot Plate Test”.

Anti-inflammatory Activity: Depending on the test system used, naproxen and naproxen sodium are slightly less active than indomethacin, and more active than hydrocortisone, ASA, phenylbutazone and mefenamic acid. Based on anti-edema effects in the rat, the duration of anti-inflammatory action of naproxen appears to be relatively short; however, these findings may only be relevant to this species, since metabolic half-life determinations in man indicate a much longer duration of action.

Naproxen and naproxen sodium appear to act directly at inflamed tissue sites, as do many other nonsteroidal anti-inflammatory agents. Their activity is not mediated by corticosteroids; the compounds do not have thymolytic activity and they have reduced inflammation in adrenalectomized rats.

As measured by the cotton-pellet-test, naproxen sodium produced significant inhibition of granuloma tissue over a relatively wide dose range (5-30 mg/kg/day), without affecting body weight or inducing other toxic manifestations.

Prostaglandin Synthesis Inhibition: Naproxen sodium inhibits the synthesis of prostaglandins E2 and F2 alpha from arachidonic acid by bovine seminal vesicle microsomes and by pregnant rat uterine microsomes. It also suppresses PGE2 production in cultures of rheumatoid synovial tissue and inhibits arachidonate induced fetal bone resorption in vitro. The delay of parturition seen with naproxen sodium and other nonsteroidal anti-inflammatory agents might be explained by this ability to inhibit uterine prostaglandin biosynthesis since prostaglandins are

known to stimulate uterine smooth muscle contractions both in vitro and in vivo. It has been recognized for some time that they play an important role in initiating labour at term.

Naproxen sodium inhibited the biosynthesis of both PGF₂ alpha and PGE₂ by pregnant rat uterine microsomes in a dose dependent manner. It was about 0.3 to 0.5 times as potent as indomethacin in this system. In contrast, it was 0.04 to 0.06 times as potent as indomethacin in inhibiting PGF₂ alpha and PGE₂ synthesis by bull seminal vesicle microsomes.

Naproxen sodium also greatly decreased PGF₂ alpha levels in the uteri of pregnant rats receiving oral doses of the drug for three days during late stages of pregnancy, confirming the in vitro effects seen with naproxen sodium in inhibiting PG synthetase.

Cardiovascular and Central Nervous System Effects: Acute studies were carried out to determine the effects of naproxen sodium on the cardiovascular and central nervous systems. Naproxen sodium was almost inert in cardiovascular system studies. Its CNS effects were minimal.

It was also determined that the effects of excessive amounts of naproxen sodium can be controlled by CNS depressants such as phenobarbital, pentobarbital, or chlordiazepoxide.

Effects on Reproductive System: Several studies were carried out to determine the drugs' effects on the reproductive system. Naproxen did not demonstrate estrogenic, anti-estrogenic or androgenic effects. High, toxic dose levels decreased pregnancies; this appeared to be an indirect consequence of general toxicity rather than a true antifertility effect.

Pharmacology of Major Metabolite: The major metabolite of naproxen, 6-desmethyl naproxen was tested in a variety of pharmacologic preparations measuring diverse activities. From these studies it was concluded that the metabolite was only very weakly active in all pharmacologic assays in laboratory animals.

Human Metabolic Studies: Since naproxen is a weak acid with a pKa = 5 and because most of the body fluids have a pH higher than 5 (except the contents of the stomach) the drug molecules exist in these physiological fluids in the anionic form.

Therefore, any difference between ingested doses of naproxen sodium and naproxen exist only in the stomach; in the dissolution rate and the absorption rate. Once absorbed into the central circulatory system the distributive, metabolic and excretory fate of the two agents are identical.

The plasma-level response to oral naproxen doses ranging up to 900 mg twice daily was studied in normal subjects. Areas under plasma concentration vs. time curves increased linearly with dose increments up to 500 mg twice a day, but larger doses fell short of the linear projections. Experiments with tritium labelled naproxen showed that there was no difference in the fraction of ingested drug excreted in the stools whether the dose was 250 mg or 900 mg, thus eliminating the possibility that this effect was a result of incomplete absorption. Accelerated

renal clearance at high doses because of disproportionate increases in the amount of unbound drug appeared to be the most likely explanation.

A bioequivalence study comparing 2 x 275 mg naproxen sodium tablets to one 550 mg naproxen sodium tablet was conducted in 12 healthy volunteers (6 men, 6 women) using an open crossover design. Each subject received a different formulation on two separate days with a one-week interval between doses. Based on the parameters listed in the table below, the 550 mg naproxen sodium tablet is bioequivalent to two 275 mg naproxen sodium tablets.

10.3 Pharmacokinetics

Parameter	Formulation		P-values ¹		Comparison B/A x 100%	95 % Fiducial	
	A	B	Form'In	Period		Limits	
Cmax (µg/mL)	86.5	92.7	.07	.28	107.1	99.5%,	115.5%
Tmax (min)	75.0	50.0	.12	.12	66.7	33.4%,	110.2%
Plasma Half-Life (hours)	16.1	16.4	.28	.98	102.1	98.1%,	106.4 %
AUC,0-24hr (µg/mLxhr)	946.6	946.5	.99	.81	100.0	95.9%,	104.3%
AUC,Total (µg/mLxhr)	1440.2	1452.3	.64	.84	100.8	97.0%,	104.8%

Formula A= 2x275 mg naproxen sodium tablets

Formula B=one 550 mg naproxen sodium tablet

1=p-values resulting from Analysis of Variance

Absorption

Naproxen sodium is freely soluble in water and is completely absorbed from the gastrointestinal tract.

Distribution:

Plasma levels are obtained in patients within 20 minutes and peak levels in approximately 1 hour.

Following I.V. administration, titrated naproxen appears to be distributed mainly in the blood, and is present there only as the unchanged drug. It is extensively bound to plasma protein and has a plasma half-life of approximately 13 hours. The preferred route of excretion is via the urine with only 1% of the dose excreted in the feces. The drug is excreted similarly by both the male and the female. Following 14 days of continuous exposure to the drug, there was no indication of induction of metabolizing enzymes. Naproxen sodium is freely soluble in water and is completely absorbed from the gastrointestinal tract. Significant plasma levels are obtained in patients within 20 minutes and the peak level in one hour.

Blood levels achieved in the human following oral administration were only slightly lower than after rapid intravenous injection.

Naproxen has a relatively small volume of distribution, about 10% of the body weight in man. This index suggests naproxen has a relatively high affinity for the blood since a large fraction of the dose is held in the central circulatory system. The small volume of distribution is probably due to extensive plasma protein binding and the pH-partitioning effect which act together to restrict naproxen largely to the plasma compartment.

Metabolism:

It is extensively bound to plasma protein and has a plasma half-life of approximately 13 hours.

Human metabolism of naproxen (determined by analysis of the urinary radioactivity following a 100 mg intravenous dose) was found to be relatively simple. The parent structure was altered only by removal of a 6-methoxy group, and by conjugation of the acid function. 70% of the ingested dose was eliminated either as unchanged naproxen (10%) or as conjugated naproxen (60%). This conjugated fraction was comprised of 40% naproxen glucuronide and 20% other conjugates including glycine and sulfate conjugates. Approximately 28% of the dose underwent 6-demethylation. As a consequence, 5% of the dose appeared in the urine as demethylated naproxen, and 23% as conjugates of demethylated naproxen. The conjugates are further separable into 12% glucuronide and 11% other conjugates.

Elimination

The preferred route of excretion is via the urine with only 1% of the dose excreted in the feces.

Special Populations and Conditions

Pediatrics: Pharmacokinetic studies of naproxen were not performed in children less than 5 years of age. Health Canada has not authorized an indication for pediatric use. See [2](#) [CONTRAINDICATIONS](#)

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 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 younger 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 unbound naproxen is increased.

Renal impairment: Given that naproxen and its metabolites are primarily excreted by the kidney, the potential exists for accumulation in the presence of renal insufficiency. Elimination of naproxen is decreased in patients with severe renal impairment. See [2 CONTRAINDICATIONS](#)

11 STORAGE, STABILITY AND DISPOSAL

Store at room temperature (15 to 30°C) in a well-closed container. Protect from light.

Keep out of reach and sight of children.

12 SPECIAL HANDLING INSTRUCTIONS

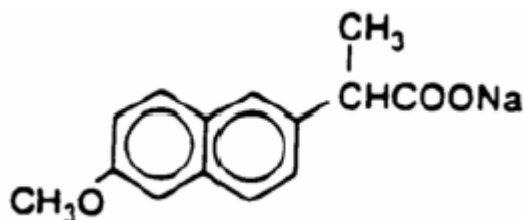
N/A

PART II: SCIENTIFIC INFORMATION

13 PHARMACEUTICAL INFORMATION

Drug Substance

Proper name:	Naproxen sodium
Chemical name:	(-)-Sodium 6-methoxy- α -methyl-2-naphthalene-acetate
Molecular formula:	C ₁₄ H ₁₃ NaO ₃
Molecular mass:	252.54 g/mol
Structural formula:	



Physicochemical properties: Naproxen sodium is a white to creamy white, practically odourless crystalline powder. It is soluble in water and methanol; sparingly soluble in alcohol; very slightly soluble in acetone and practically insoluble in chloroform. Naproxen sodium melts at approximately 225°C with decomposition.

14 CLINICAL TRIALS

The clinical trial data on which the original indication was authorized is not available.

15 MICROBIOLOGY

No microbiological information is required for this drug product.

16 NON-CLINICAL TOXICOLOGY

General Toxicology:

Naproxen sodium is the sodium salt of naproxen. In a variety of animal species and in man, the circulating plasma entity is the same (naproxen anion) with oral administration of either naproxen sodium or naproxen. Therefore, for the purpose of evaluating systemic toxicity, studies carried out with either compound are interchangeable.

Acute Animal Toxicity

The oral LD50 values for naproxen are as follows:

Hamster	4110 mg/kg
Rats	543 mg/kg
Dogs	>1000 mg/kg
Mice	1234 mg/kg

Subacute and Chronic Oral Toxicity

In subacute and chronic oral studies with naproxen in a variety of species, the principal pathologic effect was gastrointestinal irritation and ulceration. The lesions seen were predominantly in the small intestine and ranged from hyperemia to perforation and peritonitis.

Nephropathy was seen occasionally in rats, mice and rabbits at high dose levels of naproxen, but not in rhesus monkeys or miniature pigs. In the affected species the pathologic changes occurred in the cortex and papilla. Some rats examined 14 days after single oral doses of 230 mg/kg or more of naproxen evidenced necrotic areas of cortical and papillary tissue. Tubular dilation (ectasia) occurred in rabbits dosed orally for 14 days with 200 mg/kg/day or more of naproxen. An examination of unfixed renal tissue from rabbits so treated was conducted and revealed the presence of diffraction patterns similar to that of crystalline naproxen. This suggests that the ectasia observed was physical response to deposition of excreted naproxen within the tubules.

In mice given oral doses of 120 mg/kg/day or more of naproxen for 6 months, the kidneys were characterized by a low but non dosage related incidence of cortical sclerosis and papillary tip necrosis. Chronic administration of high doses of naproxen to mice appears to be associated with exacerbation of spontaneous murine nephropathy.

In rhesus monkeys given oral doses of 100 mg/kg/day or more of naproxen for 12 months, dose related renal lesions were observed. The changes included multifocal chronic active nephritis, which involved all components of the kidney in the most severely affected animals, and papillary tip necrosis.

A wide range of susceptibility to gastrointestinal lesions from administration of naproxen was evident in the various species tested. For example, 30 mg/kg/day was tolerated well by rats for

90 days, but the same dose was ulcerogenic when administered for 6 months. Rhesus monkeys and miniature swine exhibited no significant pathology when dosed with naproxen at 45 mg/kg/day for 30 days. This dose of naproxen was also tolerated by miniature swine without obvious evidence of adverse effects when administered daily for 1 year. In rhesus monkeys doses as high as 180 mg/kg/day (90 mg/kg b.i.d.) for 12 months produced only mild irritation of the gastric mucosa. In rabbits the maximum tolerated repeated oral dose is 80 to 100 mg/kg/day. Mice survived oral daily doses of 240 mg/kg/day for 6 months. In dogs, on the other hand, 5.0 mg/kg/day approaches the maximum tolerated dose.

This peculiar canine susceptibility to gastrointestinal effects of non-steroidal anti-inflammatory agents has also been shown with indomethacin and ibuprofen. In dogs naproxen exhibits a considerably longer plasma half-life than it does in rats, guinea pigs, miniature swine, monkeys, and man. The same observation has been made with ibuprofen in dogs compared to rats and man. In addition, in the species listed, only the dog excretes significant amounts of administered naproxen in the feces (50%). In the rat, guinea pigs, miniature swine, monkey, and man, 86-90% of the administered drug is excreted in the urine. The suggested enterohepatic circulation of naproxen in the dog (as judged by fecal excretion) most likely is a major factor in the susceptibility of the dog to gastrointestinal irritation by this compound.

Pathologic changes in the spleen and mesenteric lymph nodes as well as peritoneal inflammation and adhesions were considered to be clearly secondary to the effects of high doses of naproxen on the gastrointestinal tract.

Moderate weight loss of the male secondary sex glands occurred in some studies in naproxen treated rats and dogs. Histopathologically the affected glands in some instances exhibited atrophic and/or hypoplastic changes characterized by decreased secretory material. A possible estrogenic action of naproxen as a causative factor seems highly unlikely since in standard bioassay procedures the drug exhibited no estrogenic activity (see [Pharmacology](#)).

Weight loss of the male secondary sex glands as a result of inanition is well documented, and intestinal irritation with the probability of decreased absorption may have contributed in this direction. Nevertheless, daily doses of naproxen as high as 30 mg/kg administered for 60 days before mating had no effect on fertility and reproductive performance of male rats. These results reflect the physiological integrity of the entire male reproductive apparatus after administration of naproxen throughout the spermatogenic cycle.

Carcinogenicity:

Naproxen sodium was administered with food to Sprague-Dawley rats for 24 months at doses of 8, 16 and 24 mg/kg/day. Naproxen sodium was not carcinogenic in rats.

Genotoxicity:

A mutagenicity study was performed with naproxen using 5 strains of bacteria and one of yeast. The test was carried out with and without mammalian microsomal activation. Naproxen was not mutagenic in any of these test systems.

Reproductive and Developmental Toxicology:

Daily oral administration of 15, 30 or 60 mg/kg of naproxen to female rabbits from 2 weeks before mating until day 20 of pregnancy did not affect fertility, gestation, or the number of live fetuses.

In a peri- and post-natal study in rats, oral doses of naproxen up to 20 mg/kg administered daily during the last part of pregnancy through weaning did not result in adverse effects in viability of pups, lactation index, sex ratio or weight gain of offspring.

However, there was a slight increase in gestation length at the 10 and 20 mg/kg dose levels; and, at the 10 mg/kg dose level, there was a significant increase in stillbirths.

Recent evidence, however, suggests that inhibition of prostaglandin synthesis by non-steroidal anti-inflammatory compounds may be related to decreased uterine contractility. Thus, the onset of labour in a rat model system can be delayed with naproxen administration without causing maternal or fetal deaths in excess of that seen in controls. Since it has been shown that naproxen inhibits prostaglandin synthesis *in vitro*, it has been suggested that the effects of naproxen on uterine contractility are mediated through that mechanism.

Maternal and fetal deaths seen in naproxen-treated rats were, therefore, apparently related to dystocia rather than to a direct toxic effect of the compound. Naproxen is not unique in this regard since comparable results were obtained in the rat with other commonly used non steroidal anti-inflammatory agents (acetylsalicylic acid, indomethacin, mefenamic acid, and phenylbutazone). Similar results have been suggested in reports of other animal studies with mefenamic acid and ibuprofen.

In a fertility and reproduction study in mice, the dams were dosed daily with 12, 36 or 108 mg/kg from 14 days prior to mating through weaning. At the highest dose level, there was an increase in maternal deaths which was reflected in decreased 21 day survival and lactation indices. There were no other changes in the parameters examined. In a similar study in rats, daily doses were 2, 10 or 20 mg/kg from 14 days before mating through weaning. Other than decreased survival to weaning which appeared due to poor maternal care in pups born to high dose dams, there were no differences between control and treated groups. One mid and one high dose dam died during labour due to delayed parturition.

In teratology studies no skeletal or visceral anomalies or pathologic changes were induced in the fetuses of pregnant rats and rabbits treated during organogenesis with daily oral doses of

naproxen up to 20 mg/kg nor in mice similarly treated with 30 or 50 mg/kg. In these studies there were also no significant differences from controls in the number of live fetuses, resorption, fetal weights or ano-genital distances. In another mouse study no malformations were observed with administration of 60 or 120 mg/kg of naproxen although there was a slight reduction in number of live fetuses in both dose groups and in fetal body weight in the high dose group.

17 SUPPORTING PRODUCT MONOGRAPHS

1. ANAPROX® ANAPROX® DS (Film-Coated Tablets, 275 and 550 mg), submission control # 253450, Product Monograph, Atrahs Pharma UK Limited. (January 18, 2022)

PATIENT MEDICATION INFORMATION

READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

Pr **TEVA-NAPROXEN SODIUM**

Pr **TEVA-NAPROXEN SODIUM DS**

Naproxen Sodium Tablets, USP

Read this carefully before you start taking **TEVA-NAPROXEN SODIUM** or **TEVA-NAPROXEN SODIUM DS** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **TEVA-NAPROXEN SODIUM** or **TEVA-NAPROXEN SODIUM DS**.

Serious Warnings and Precautions

Heart and blood vessel problems:

- TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS can cause heart and blood vessel problems like heart attacks, stroke, blood clots, high blood pressure and heart failure. These can lead to death.
- The risk of having heart problems is higher if you take TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS for long periods of time and/or at higher doses and/or in people who have heart disease.
- Tell your healthcare professional if you have or had heart problems, high blood pressure or diabetes.

Stomach and intestine (gastrointestinal) problems:

- TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS can cause stomach and intestine problems like ulcers, inflammation, bleeding, holes/perforation, blockage or pain.

Talk to your healthcare professional about any medical conditions you have and drugs you are taking.

Pregnancy:

- **DO NOT** take TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS if you are pregnant and in a later stage of pregnancy (28 weeks or later).
- If you are pregnant and in an earlier stage of pregnancy (less than 28 weeks) only take TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS if you are told to do so by your healthcare professional.
- Medicines like TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS may cause harm to you and your baby. Your healthcare professional will need to closely monitor your health and that of your baby (including your amniotic fluid levels) if they prescribe TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS during this time.

Tell your healthcare professional right away if you become pregnant, think you may be pregnant or want to get pregnant during your treatment with TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS.

What is TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS used for?

TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS is used in adults for:

- the relief of mild to moderately severe pain, accompanied by inflammation in conditions such;
 - as musculoskeletal trauma and
 - post-dental extraction.

- the relief of pain associated with post-partum cramping and period cramps (dysmenorrhea)

How does TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS work?

- TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS (naproxen) belongs to a group of medicines called non-steroidal anti-inflammatory drug (NSAID). It can reduce the chemicals produced by your body which cause pain and swelling.
- TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS only treats the symptoms and relieves pain and inflammation as long as you take it. TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS does not cure the illness or stop it from getting worse.

What are the ingredients in TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS?

Medicinal ingredients: Naproxen sodium

Non-medicinal ingredients: Colloidal silicon dioxide, magnesium stearate, microcrystalline cellulose, povidone, purified water, sodium lauryl sulfate and sodium starch glycolate. The coating suspension for both the 275 mg and 550 mg tablets contain FD&C Blue #2, hypromellose, polyethylene glycol, polysorbate and titanium dioxide.

TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS comes in following dosage forms:

Film coated tablets: 275 mg and 550 mg.

Do not use TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS if you:

- have heart bypass surgery (planning to have or recently had)
- have severe, uncontrolled heart failure
- are bleeding in the brain or other bleeding disorders
- are pregnant and in a later stage of pregnancy (28 weeks or later)
- are currently breastfeeding (or planning to breastfeed)
- are allergic to naproxen sodium or any of the other ingredients in this medicine or the container
- are allergic or had symptoms of an allergic reaction to ASA (Acetylsalicylic Acid) or other NSAIDs (Nonsteroidal Anti-Inflammatory Drugs)
- have a history of asthma, hives, growth in your nose, sinus swelling
- have active stomach or intestine ulcer
- have active bleeding from the stomach or gut
- have inflammatory bowel disease (Crohn's Disease or Ulcerative Colitis)
- have liver disease (active or severe)
- have kidney disease (severe or worsening)
- have high potassium in the blood
- are under 18 years old

To help avoid side effects and ensure proper use, talk to your healthcare professional before you take TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS. Talk about any health conditions or problems you may have, including if you:

- have high blood pressure, high cholesterol or diabetes
- have or had heart attacks, chest pain, heart disease, stroke or heart failure
- are on a low sugar diet
- Atherosclerosis (hardening of the arteries)
- have poor blood flow to your extremities (like your hands and feet)
- Smoke or used to smoke
- drink a lot of alcohol

- have a stomach infection
- have liver or kidney problems, urine problems or are dehydrated
- have a history of ulcer or bleeding from the stomach or gut (small or large intestine)
- have other bleeding or blood problems
- previous bleeding in the brain
- have asthma
- are pregnant, planning on becoming or become pregnant while taking TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS
- have immune system problems

Other warnings you should know about:

Serious Side Effects: TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS can cause serious side effects, including:

- **Fluid retention and unusual swelling:** This may worsen existing heart problems, including heart failure. Speak to your healthcare professional if you have a condition that puts you at risk for fluid retention
- **Blood and bleeding problems:**
 - TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS can cause blood problems, bleeding and prolonged bleeding.
 - Taking TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS with the following drugs can increase the risk of bleeding:
 - anticoagulants (prevents blood clots), corticosteroids (anti-inflammatory) or antidepressants like selective serotonin reuptake inhibitors (SSRIs).
- **Serious skin reactions:** In rare cases, serious, life-threatening allergic and skin reactions have been reported with some NSAIDs, such as TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS.
- These skin problems most often happen during the first month of treatment. Tell your healthcare professional immediately if you notice any changes in your skin both during and after treatment. TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS might cause you to become more sensitive to sunlight. Sunlight or sunlamps may cause sunburn, skin blisters, skin rash, redness, itching or discoloration, or vision changes. If you have a reaction from the sun, talk to your healthcare professional.
- **Check-ups and testing:** You will have regular visits with your healthcare professional during treatment with TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS to monitor your health. They will:
 - Check your blood pressure.
 - Check your eyes. TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS can cause blurred or reduced vision.
 - Do blood and urine tests to check your liver, kidney and blood health.
- **Surgery:** Tell any doctor, dentist, pharmacist or healthcare professional that you see, that you are taking this medicine. This is especially important if you are planning to have heart surgery.
- **Driving and Using Machines:** TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS may cause eye or nervous system problems. This includes tiredness, trouble sleeping, blurred vision, spinning or dizziness (vertigo), hearing problems or depression. Be careful about driving or doing activities that require you to be alert. If you become drowsy, dizzy or light-headed after taking TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS, do NOT drive or operate machinery.

- **Fertility in Women:** TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS may affect your fertility. This means that it may be difficult for you to have a child. If you have trouble having a child, you might need to stop taking TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS. Talk to your healthcare professional if you have questions about this.
- **Adults (65 years or older):** Side effects like gastrointestinal problems may happen more often. Your healthcare professional might have you start with a lower dose of TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS. They will monitor your health during and after treatment.

Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.

The following may interact with TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS:

- Acetylsalicylic Acid (ASA) or other NSAIDs, used to treat pain, fever and inflammation, like;
 - celecoxib, diclofenac, ibuprofen, indomethacin, ketorolac, meloxicam, naproxen
- Antacids, used to treat symptoms of excess stomach acid
- Medicines used to treat depression (antidepressants) like citalopram, fluoxetine, paroxetine, sertraline, and lithium
- Medicines used to treat high blood pressure like;
 - ACE (angiotensin converting enzyme) inhibitors (e.g. enalapril, ramipril, candesartan, irbesartan, propranolol)
 - ARBs (angiotensin II receptor blockers) (e.g. candesartan, irbesartan, losartan, valsartan)
- Medicines used as blood thinners or to prevent blood clots, like warfarin, ASA, clopidogrel
- Medicines used to lower extra fluid levels (diuretics), like furosemide, hydrochlorothiazide
- Medicines used to treat diabetes, like sulphonylurea or other oral hypoglycemics
- Medicines used to treat bacteria infections (antibiotics) like quinolone or sulphonamide
- Medicines used to lower the risk of organ rejection, like tacrolimus and cyclosporine
- Corticosteroids (including glucocorticoids such as prednisone), used as an anti-inflammatory
- Cholestyramine, used to lower cholesterol levels
- Digoxin, used to treat heart disorders
- Hydantoin, used to treat seizures
- Medicines used to treat different cancers, like methotrexate and pemetrexed
- Oral birth control, used to prevent pregnancy
- Probenecid, used to prevent gout
- Alcohol

How to take TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS (18 years of age and older):

- Take exactly as your healthcare professional has told you. They should recommend the lowest dose possible for your treatment for the shortest time needed.
- Swallow capsules whole with food or milk. Do NOT split, chew or crush the tablets.
- **This medicine has been prescribed specifically for you. Do NOT give it to anyone else. It may harm them, even if their symptoms seem to be similar to yours.**
- If you will be taking TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS for more than 7 days, see your healthcare professional regularly. They will check if TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS is working for you and if it is causing any side effects.

Usual dose:

Adults 18 years and older:

- Your healthcare professional will decide on the best dosage for you based on your condition.

- Your healthcare professional may lower your dose, stop your treatment for a period of time or recommend that you stop treatment completely. This may happen if you:
 - experience serious side effects, or
 - your disease gets worse.

Overdose:

If you think you, or a person you are caring for, have taken too much TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS, contact a healthcare professional, hospital emergency department, or regional poison control centre immediately, even if there are no symptoms.

Missed Dose:

- If you miss a dose of TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS, take the dose as soon as possible. Take your next dose at the usual time.
- If it is close to the time of your next dose, skip the missed dose. Take your next dose at the usual time.
- Do not take two doses at the same time to make up for a forgotten dose.

What are possible side effects from using TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS?

These are not all the possible side effects you may have when taking TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS. If you experience any side effects not listed here, tell your healthcare professional.

Side effects may include:

- Nausea, vomiting, diarrhea, constipation, stomach upset/abdominal pain heartburn, indigestion, feeling gassy
- Headache, dizziness, light-headedness
- Feeling of burning / prickliness / numbing
- Confusion, hard to concentrate or think, short-term memory loss, nervousness
- Sensitivity to sunlight (may cause sunburn, skin blisters, skin rash, redness, itching or discoloration, or vision changes)
- Bruises
- Skin rash
- Taste disorder, thirst, dry mouth
- Muscle pain
- Mouth sores
- Chills, fever, muscle aches or pains or other flu-like symptoms especially if they occur before or together with a skin rash.
- Trouble sleeping (insomnia)
- Stiff neck
- Hair loss
- Increased sweating
- Problems with your period (women)

Serious side effects and what to do about them			
Symptom / effect	Talk to your healthcare professional		Stop taking drug and get immediate medical help
	Only if severe	In all cases	
COMMON			
Gastrointestinal (GI) problems (bleeding, blockage, holes, ulcers or inflammation in your GI tract): blood in vomit, black tarry or bloody stool, dizziness, stomach pain, bloating, loss of appetite, weight loss, nausea, vomiting, constipation or diarrhea, chills or fever		√	
Hypertension (high blood pressure): fatigue, dizziness or fainting, chest pain	√		
UNCOMMON			
Anaphylaxis/hypersensitivity (severe allergic reactions): sudden wheeziness and chest pain or tightness; or swelling of eyelids, face, lips, tongue or throat, swelling or anaphylactic reaction/shock			√
Aseptic meningitis (inflammation of the protective lining of the brain that is not caused by infection): Headaches, stiff neck, nausea and vomiting, fever or clouding of consciousness		√	
Blood problems (low white and/or red blood cell or platelet count): feeling tired or weak, pale skin, bruising or bleeding for longer than usual if you hurt yourself, fever, chills		√	
Congestive heart failure (heart does not pump blood as well as it should): shortness of breath, fatigue and weakness, swelling in ankles, legs and feet, cough, fluid retention, lack of appetite, nausea, rapid or irregular heartbeat, reduced ability to exercise.			√
Cystitis (bladder infection): increased need to urinate, pain in the pelvis or lower back, frequent urination during the night, cloudy urine that may contain blood, burning or pain urinating		√	
Depression (sad mood that will not go away): difficulty sleeping or sleeping too much, changes in appetite or weight, reduced sex drive and thoughts of death or suicide.		√	
Kidney disorder/problems (including kidney failure): nausea, vomiting, fever, swelling of extremities, fatigue, thirst, dry skin, irritability, dark urine, increased or decreased urine output, blood in the urine, rash, weight gain (from retaining fluid), loss of appetite, mental status changes (drowsiness, confusion, coma)		√	
Liver problems (including hepatitis, liver failure, cholestasis): yellowing of your skin and eyes (jaundice), right upper stomach area pain or swelling, nausea or vomiting, unusual dark urine, unusual tiredness		√	
Lung problems, asthma: increased shortness of breath, wheezing, difficulty breathing, cough and chest tightness, irregular heartbeat			√

Myocardial infarction (heart attack): pressure or squeezing pain between the shoulder blades, in the chest, jaw, left arm or upper abdomen, shortness of breath, dizziness, fatigue, light-headedness, clammy skin, sweating, indigestion, anxiety, feeling faint and possible irregular heartbeat.			√
Stroke (bleeding or blood clot in the brain): sudden numbness, weakness or tingling of the face, arm, or leg, particularly on one side of the body, sudden headache, blurry vision, difficulty swallowing or speaking, or lethargy, dizziness, fainting, vomiting, trouble understanding, trouble with walking and loss of balance			√
Tinnitus (hearing problems): includes ringing, buzzing, clicking or hissing in ears, loss of hearing		√	
Vertigo (a sense of severe spinning dizziness, light-headedness)		√	
RARE			
Serious Skin Reactions: fever, severe rash, swollen lymph glands, flu-like feeling, blisters and peeling skin that may start in and around the mouth, nose, eyes and genitals and spread to other areas of the body, swelling of face and/or legs, yellow skin or eyes, shortness of breath, dry cough, chest pain or discomfort, feeling thirsty, urinating less often, less urine or dark urine, hives, red or dry itchy skin, purple or red spots on skin			√

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, tell your healthcare professional.

Reporting Side Effects

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (<https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada/adverse-reaction-reporting.html>) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

Do NOT keep outdated medicine or medicine no longer needed. Any outdated or unused medicine should be returned to your pharmacist.

Keep out of reach and sight of children.

If you want more information about TEVA-NAPROXEN SODIUM or TEVA-NAPROXEN SODIUM DS:

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient

Medication Information by visiting the Health Canada website (<https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-database.html>); the manufacturer's website <http://www.tevacanada.com> or by calling 1-800-268-4127 ext. 3; or email druginfo@tevacanada.com.

This leaflet was prepared by Teva Canada Limited, Toronto, Ontario M1B 2K9.

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