#### WARFARIN SODIUM- warfarin sodium tablet Sun Pharmaceutical Industries, Inc.

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

WARFARIN SODIUM tablets, for oral use Initial U.S. Approval: 1954

#### WARNING: BLEEDING RISK

See full prescribing information for complete boxed warning.

- Warfarin sodium can cause major or fatal bleeding. (5.1)
- Perform regular monitoring of INR in all treated patients. (2.1)
- Drugs, dietary changes, and other factors affect INR levels achieved with warfarin sodium therapy. (7)
- Instruct patients about prevention measures to minimize risk of bleeding and to report signs and symptoms of bleeding. (17)

#### ----- RECENT MAJOR CHANGES -----

Dosage and Administration, Renal Impairment ( 2.5)	5/2017
Warnings and Precautions, Calciphylaxis ( 5.3)	9/2016
Warnings and Precautions, Acute kidney injury ( 5.4)	5/2017

#### ------ INDICATIONS AND USAGE

Warfarin sodium is a vitamin K antagonist indicated for:

- Prophylaxis and treatment of venous thrombosis and its extension, pulmonary embolism (1)
- Prophylaxis and treatment of thromboembolic complications associated with atrial fibrillation and/or cardiac valve replacement (1)
- Reduction in the risk of death, recurrent myocardial infarction, and thromboembolic events such as stroke or systemic embolization after myocardial infarction (1)

#### Limitations of Use

Warfarin sodium has no direct effect on an established thrombus, nor does it reverse ischemic tissue damage. (1)

- ----- DOSAGE AND ADMINISTRATION
- Individualize dosing regimen for each patient, and adjust based on INR response. (2.1, 2.2)
- Knowledge of genotype can inform initial dose selection. (2.3)
- Monitoring: Obtain daily INR determinations upon initiation until stable in the therapeutic range. Obtain subsequent INR determinations every 1 to 4 weeks. (2.4)
- Review conversion instructions from other anticoagulants. (2.8)

#### ..... DOSAGE FORMS AND STRENGTHS .....

• Scored tablets: 1, 2, 2<sup>1</sup>/<sub>2</sub>, 3, 4, 5, 6, 7<sup>1</sup>/<sub>2</sub>, or 10 mg ( 3)

#### ----- CONTRAINDICATIONS

- Pregnancy, except in women with mechanical heart valves (4, 5.7, 8.1)
- Hemorrhagic tendencies or blood dyscrasias (4)
- Recent or contemplated surgery of the central nervous system (CNS) or eye, or traumatic surgery resulting in large open surfaces (4, 5.8)
- Bleeding tendencies associated with certain conditions (4)
- Threatened abortion, eclampsia, and preeclampsia (4)
- Unsupervised patients with potential high levels of non-compliance (4)
- Spinal puncture and other diagnostic or therapeutic procedures with potential for uncontrollable

bleeding (4)

- Hypersensitivity to warfarin or any component of the product (4)
- Major regional or lumbar block anesthesia (4)
- Malignant hypertension (4)

#### ······ WARNINGS AND PRECAUTIONS ······

- Tissue necrosis: Necrosis or gangrene of skin or other tissues can occur, with severe cases requiring debridement or amputation. Discontinue warfarin sodium and consider alternative anticoagulants if necessary. (5.2)
- Calciphylaxis: Fatal and serious cases have occurred. Discontinue warfarin sodium and consider alternative anticoagulation therapy. (5.3)
- Acute kidney injury may occur during episodes of excessive anticoagulation and hematuria. (5.4)
- Systemic atheroemboli and cholesterol microemboli: Some cases have progressed to necrosis or death. Discontinue warfarin sodium if such emboli occur. (5.5)
- Heparin-induced thrombocytopenia (HIT): Initial therapy with warfarin sodium in HIT has resulted in cases of amputation and death. Warfarin sodium may be considered after platelet count has normalized. (5.6)
- Pregnant women with mechanical heart valves: Warfarin sodium may cause fetal harm; however, the benefits may outweigh the risks. (5.7)

Most common adverse reactions to warfarin sodium are fatal and nonfatal hemorrhage from any tissue or organ. (6)

## To report SUSPECTED ADVERSE REACTIONS, contact Taro Pharmaceuticals U.S.A., Inc., at 1-866-923-4914 or FDA at 1-800-FDA-1088 orwww.fda.gov/medwatch.

- ----- DRUG INTERACTIONS ------
- Concomitant use of drugs that increase bleeding risk, antibiotics, antifungals, botanical (herbal) products, and inhibitors and inducers of CYP2C9, 1A2, or 3A4. (7)
- Consult labeling of all concurrently used drugs for complete information about interactions with warfarin sodium or increased risks for bleeding. (7)
- Pregnant women with mechanical heart valves: Warfarin sodium may cause fetal harm; however, the benefits may outweigh the risks. (8.1)
- Lactation: Monitor breastfeeding infants for bruising or bleeding. (8.2)
- Renal Impairment: Instruct patients with renal impairment to frequently monitor their INR. (8.6)

#### See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

**Revised: 8/2022** 

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### WARNING: BLEEDING RISK

- Warfarin sodium can cause major or fatal bleeding [see *Warnings and Precautions (5.1)*].
- Perform regular monitoring of INR in all treated patients [see *Dosage and Administration (2.1)*].
- Drugs, dietary changes, and other factors affect INR levels achieved with warfarin sodium therapy [see *Drug Interactions (7)*].
- Instruct patients about prevention measures to minimize risk of bleeding and to report signs and symptoms of bleeding [see *Patient Counseling Information* (17)].

## **1 INDICATIONS AND USAGE**

Warfarin sodium tablets, USP are indicated for:

- Prophylaxis and treatment of venous thrombosis and its extension, pulmonary embolism (PE).
- Prophylaxis and treatment of thromboembolic complications associated with atrial fibrillation (AF) and/or cardiac valve replacement.
- Reduction in the risk of death, recurrent myocardial infarction (MI), and thromboembolic events such as stroke or systemic embolization after myocardial infarction.

#### Limitations of Use

Warfarin sodium has no direct effect on an established thrombus, nor does it reverse ischemic tissue damage. Once a thrombus has occurred, however, the goals of anticoagulant treatment are to prevent further extension of the formed clot and to prevent secondary thromboembolic complications that may result in serious and possibly fatal sequelae.

## **2 DOSAGE AND ADMINISTRATION**

## 2.1 Individualized Dosing

The dosage and administration of warfarin sodium must be individualized for each patient according to the patient's International Normalized Ratio (INR) response to the drug. Adjust the dose based on the patient's INR and the condition being treated. Consult the latest evidence-based clinical practice guidelines regarding the duration and intensity of anticoagulation for the indicated conditions.

#### 2.2 Recommended Target INR Ranges and Durations for Individual Indications

# An INR of greater than 4.0 appears to provide no additional therapeutic benefit in most patients and is associated with a higher risk of bleeding.

Venous Thromboembolism (including deep venous thrombosis [DVT] and PE)

Adjust the warfarin dose to maintain a target INR of 2.5 (INR range, 2.0 to 3.0) for all treatment durations. The duration of treatment is based on the indication as follows:

- For patients with a DVT or PE secondary to a transient (reversible) risk factor, treatment with warfarin for 3 months is recommended.
- For patients with an unprovoked DVT or PE, treatment with warfarin is recommended for at least 3 months. After 3 months of therapy, evaluate the risk-benefit ratio of long-term treatment for the individual patient.
- For patients with two episodes of unprovoked DVT or PE, long-term treatment with warfarin is recommended. For a patient receiving long-term anticoagulant treatment, periodically reassess the risk-benefit ratio of continuing such treatment in the individual patient.

#### Atrial Fibrillation

In patients with non-valvular AF, anticoagulate with warfarin to target INR of 2.5 (range, 2.0 to 3.0).

- In patients with non-valvular AF that is persistent or paroxysmal and at high risk of stroke (i.e., having any of the following features: prior ischemic stroke, transient ischemic attack, or systemic embolism, or 2 of the following risk factors: age greater than 75 years, moderately or severely impaired left ventricular systolic function and/or heart failure, history of hypertension, or diabetes mellitus), long-term anticoagulation with warfarin is recommended.
- In patients with non-valvular AF that is persistent or paroxysmal and at an intermediate risk of ischemic stroke (i.e., having 1 of the following risk factors: age greater than 75 years, moderately or severely impaired left ventricular systolic function and/or heart failure, history of hypertension, or diabetes mellitus), long-term anticoagulation with warfarin is recommended.
- For patients with AF and mitral stenosis, long-term anticoagulation with warfarin is recommended.
- For patients with AF and prosthetic heart valves, long-term anticoagulation with warfarin is recommended; the target INR may be increased and aspirin added depending on valve type and position, and on patient factors.

Mechanical and Bioprosthetic Heart Valves

- For patients with a bileaflet mechanical valve or a Medtronic Hall (Minneapolis, MN) tilting disk valve in the aortic position who are in sinus rhythm and without left atrial enlargement, therapy with warfarin to a target INR of 2.5 (range, 2.0 to 3.0) is recommended.
- For patients with tilting disk valves and bileaflet mechanical valves in the mitral position, therapy with warfarin to a target INR of 3.0 (range, 2.5 to 3.5) is recommended.
- For patients with caged ball or caged disk valves, therapy with warfarin to a target INR of 3.0 (range, 2.5 to 3.5) is recommended.
- For patients with a bioprosthetic valve in the mitral position, therapy with warfarin to a target INR of 2.5 (range, 2.0 to 3.0) for the first 3 months after valve insertion is recommended. If additional risk factors for thromboembolism are present (AF, previous thromboembolism, left ventricular dysfunction), a target INR of 2.5 (range, 2.0 to 3.0) is recommended.

Post-Myocardial Infarction

 For high-risk patients with MI (e.g., those with a large anterior MI, those with significant heart failure, those with intracardiac thrombus visible on transthoracic echocardiography, those with AF, and those with a history of a thromboembolic event), therapy with combined moderate-intensity (INR, 2.0 to 3.0) warfarin plus lowdose aspirin (≤100 mg/day) for at least 3 months after the MI is recommended.

Recurrent Systemic Embolism and Other Indications

Oral anticoagulation therapy with warfarin has not been fully evaluated by clinical trials in patients with valvular disease associated with AF, patients with mitral stenosis, and patients with recurrent systemic embolism of unknown etiology. However, a moderate dose regimen (INR 2.0 to 3.0) may be used for these patients.

## 2.3 Initial and Maintenance Dosing

The appropriate initial dosing of warfarin sodium varies widely for different patients. Not all factors responsible for warfarin dose variability are known, and the initial dose is influenced by:

- Clinical factors including age, race, body weight, sex, concomitant medications, and comorbidities
- Genetic factors (CYP2C9 and VKORC1 genotypes) [see Clinical Pharmacology (12.5)]

Select the initial dose based on the expected maintenance dose, taking into account the above factors. Modify this dose based on consideration of patient-specific clinical factors. Consider lower initial and maintenance doses for elderly and/or debilitated patients and in Asian patients [see *Use in Specific Populations (8.5)* and *Clinical Pharmacology (12.3)*]. Routine use of loading doses is not recommended as this practice may increase hemorrhagic and other complications and does not offer more rapid protection against clot formation.

Individualize the duration of therapy for each patient. In general, anticoagulant therapy should be continued until the danger of thrombosis and embolism has passed [see *Dosage and Administration (2.2)*].

Dosing Recommendations without Consideration of Genotype

If the patient's CYP2C9 and VKORC1 genotypes are not known, the initial dose of warfarin sodium is usually 2 to 5 mg once daily. Determine each patient's dosing needs by close monitoring of the INR response and consideration of the indication being treated. Typical maintenance doses are 2 to 10 mg once daily.

Dosing Recommendations with Consideration of Genotype

Table 1 displays three ranges of expected maintenance warfarin sodium doses observed in subgroups of patients having different combinations of CYP2C9 and VKORC1 gene variants [see *Clinical Pharmacology (12.5)*]. If the patient's CYP2C9 and/or VKORC1 genotype are known, consider these ranges in choosing the initial dose. Patients with CYP2C9 \*1/\*3, \*2/\*2, \*2/\*3, and \*3/\*3 may require more prolonged time (>2 to 4 weeks) to achieve maximum INR effect for a given dosage regimen than patients without these CYP variants.

## Table 1: Three Ranges of Expected Maintenance WarfarinSodium Daily Doses Based on CYP2C9 and VKORC1

Genotypes \*

VKORC1	CYP2C9					
	*1/*1	*1/*2	*1/*3	*2/*2	*2/*3	*3/*3
GG	5-7 mg	5-7 mg	3-4 mg	3-4 mg	3-4 mg	0.5-2 mg
AG	5-7 mg	3-4 mg	3-4 mg	3-4 mg	0.5-2 mg	0.5-2 mg
AA	3-4 mg	3-4 mg	0.5-2	0.5-2	0.5-2 mg	$0.5_{-}2$ ma
	5-4 mg	J-4 mg	mg	mg	0.5-2 mg	0.3-2 mg

 \* Ranges are derived from multiple published clinical studies. VKORC1 –1639G>A (rs9923231) variant is used in this table. Other coinherited VKORC1 variants may also be important determinants of warfarin dose.

## 2.4 Monitoring to Achieve Optimal Anticoagulation

Warfarin sodium has a narrow therapeutic range (index), and its action may be affected by factors such as other drugs and dietary vitamin K. Therefore, anticoagulation must be carefully monitored during warfarin sodium therapy. Determine the INR daily after the administration of the initial dose until INR results stabilize in the therapeutic range. After stabilization, maintain dosing within the therapeutic range by performing periodic INRs. The frequency of performing INR should be based on the clinical situation but generally acceptable intervals for INR determinations are 1 to 4 weeks. Perform additional INR tests when other warfarin products are interchanged with warfarin sodium, as well as whenever other medications are initiated, discontinued, or taken irregularly. Heparin, a common concomitant drug, increases the INR [see *Dosage and Administration (2.8)* and *Drug Interactions (7)*].

Determinations of whole blood clotting and bleeding times are not effective measures for monitoring of warfarin sodium therapy.

## 2.5 Renal Impairment

No dosage adjustment is necessary for patients with renal failure. Monitor INR more frequently in patients with compromised renal function to maintain INR within the therapeutic range [see *Warnings and Precautions (5.4) and Use in Specific Populations (8.6)*].

## 2.6 Missed Dose

The anticoagulant effect of warfarin sodium persists beyond 24 hours. If a patient misses a dose of warfarin sodium at the intended time of day, the patient should take the dose as soon as possible on the same day. The patient should not double the dose the next day to make up for a missed dose.

## 2.7 Treatment During Dentistry and Surgery

Some dental or surgical procedures may necessitate the interruption or change in the dose of warfarin sodium therapy. Consider the benefits and risks when discontinuing warfarin sodium even for a short period of time. Determine the INR immediately prior to any dental or surgical procedure. In patients undergoing minimally invasive procedures who must be anticoagulated prior to, during, or immediately following these procedures, adjusting the dosage of warfarin sodium to maintain the INR at the low end of the therapeutic range may safely allow for continued anticoagulation.

## 2.8 Conversion From Other Anticoagulants

#### Heparin

Since the full anticoagulant effect of warfarin sodium is not achieved for several days, heparin is preferred for initial rapid anticoagulation. During initial therapy with warfarin sodium, the interference with heparin anticoagulation is of minimal clinical significance. Conversion to warfarin sodium may begin concomitantly with heparin therapy or may be delayed 3 to 6 days. To ensure therapeutic anticoagulation, continue full dose heparin therapy and overlap warfarin sodium therapy with heparin for 4 to 5 days and until warfarin sodium has produced the desired therapeutic response as determined by INR, at which point heparin may be discontinued.

As heparin may affect the INR, patients receiving both heparin and warfarin sodium should have INR monitoring at least:

- 5 hours after the last intravenous bolus dose of heparin, or
- 4 hours after cessation of a continuous intravenous infusion of heparin, or
- 24 hours after the last subcutaneous heparin injection.

Warfarin sodium may increase the activated partial thromboplastin time (aPTT) test, even in the absence of heparin. A severe elevation (>50 seconds) in aPTT with an INR in the desired range has been identified as an indication of increased risk of postoperative hemorrhage.

Other Anticoagulants

Consult the labeling of other anticoagulants for instructions on conversion to warfarin sodium.

## **3 DOSAGE FORMS AND STRENGTHS**

Strength	Color	Engraved
1 mg	pink	1
2 mg	lavender	2
2.5 mg	green	21⁄2
3 mg	tan	3
4 mg	blue	4
5 mg	peach	5
6 mg	teal	6
7.5 mg	yellow	7½
10 mg	white (dye-free)	10

## Warfarin Sodium Single-Scored Tablets, USP

#### **4 CONTRAINDICATIONS**

Warfarin sodium tablets, USP are contraindicated in:

• Pregnancy

Warfarin sodium tablets, USP are contraindicated in women who are pregnant except in

pregnant women with mechanical heart valves, who are at high risk of thromboembolism [see *Warnings and Precautions (5.7)* and *Use in Specific Populations (8.1)*]. Warfarin sodium can cause fetal harm when administered to a pregnant woman. Warfarin sodium exposure during pregnancy causes a recognized pattern of major congenital malformations (warfarin embryopathy and fetotoxicity), fatal fetal hemorrhage, and an increased risk of spontaneous abortion and fetal mortality. If warfarin sodium is used during pregnancy or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to a fetus [see *Use in Specific Populations (8.1)*].

Warfarin sodium tablets, USP are contraindicated in patients with:

- Hemorrhagic tendencies or blood dyscrasias
- Recent or contemplated surgery of the central nervous system or eye, or traumatic surgery resulting in large open surfaces [see *Warnings and Precautions (5.8)*]
- Bleeding tendencies associated with:
  - Active ulceration or overt bleeding of the gastrointestinal, genitourinary, or respiratory tract
  - Central nervous system hemorrhage
  - Cerebral aneurysms, dissecting aorta
  - Pericarditis and pericardial effusions
  - Bacterial endocarditis
- Threatened abortion, eclampsia, and preeclampsia
- Unsupervised patients with conditions associated with potential high level of noncompliance
- Spinal puncture and other diagnostic or therapeutic procedures with potential for uncontrollable bleeding
- Hypersensitivity to warfarin or to any other components of this product (e.g., anaphylaxis) [see *Adverse Reactions (6)*]
- Major regional or lumbar block anesthesia
- Malignant hypertension

## **5 WARNINGS AND PRECAUTIONS**

#### 5.1 Hemorrhage

Warfarin sodium can cause major or fatal bleeding. Bleeding is more likely to occur within the first month. Risk factors for bleeding include high intensity of anticoagulation (INR >4.0), age greater than or equal to 65, history of highly variable INRs, history of gastrointestinal bleeding, hypertension, cerebrovascular disease, anemia, malignancy, trauma, renal impairment, certain genetic factors [see *Clinical Pharmacology (12.5)*], certain concomitant drugs [see *Drug Interactions (7)*], and long duration of warfarin therapy.

Perform regular monitoring of INR in all treated patients. Those at high risk of bleeding may benefit from more frequent INR monitoring, careful dose adjustment to desired INR, and a shortest duration of therapy appropriate for the clinical condition. However, maintenance of INR in the therapeutic range does not eliminate the risk of bleeding.

Drugs, dietary changes, and other factors affect INR levels achieved with warfarin sodium therapy. Perform more frequent INR monitoring when starting or stopping other

drugs, including botanicals, or when changing dosages of other drugs [see *Drug Interactions (7)*].

Instruct patients about prevention measures to minimize risk of bleeding and to report signs and symptoms of bleeding [see *Patient Counseling Information (17)*].

## 5.2 Tissue Necrosis

Warfarin sodium can cause necrosis and/or gangrene of skin and other tissues, which is an uncommon but serious risk (<0.1%). Necrosis may be associated with local thrombosis and usually appears within a few days of the start of warfarin sodium therapy. In severe cases of necrosis, treatment through debridement or amputation of the affected tissue, limb, breast, or penis has been reported.

Careful clinical evaluation is required to determine whether necrosis is caused by an underlying disease. Although various treatments have been attempted, no treatment for necrosis has been considered uniformly effective. Discontinue warfarin sodium therapy if necrosis occurs. Consider alternative drugs if continued anticoagulation therapy is necessary.

## 5.3 Calciphylaxis

Warfarin sodium can cause fatal and serious calciphylaxis or calcium uremic arteriolopathy, which has been reported in patients with and without end-stage renal disease. When calciphylaxis is diagnosed in these patients, discontinue warfarin sodium and treat calciphylaxis as appropriate. Consider alternative anticoagulation therapy.

## 5.4 Acute Kidney Injury

In patients with altered glomerular integrity or with a history of kidney disease, acute kidney injury may occur with warfarin sodium, possibly in relation to episodes of excessive anticoagulation and hematuria [see *Use in Specific Populations (8.6)*]. More frequent monitoring of anticoagulation is advised in patients with compromised renal function.

## 5.5 Systemic Atheroemboli and Cholesterol Microemboli

Anticoagulation therapy with warfarin sodium may enhance the release of atheromatous plaque emboli. Systemic atheroemboli and cholesterol microemboli can present with a variety of signs and symptoms depending on the site of embolization. The most commonly involved visceral organs are the kidneys followed by the pancreas, spleen, and liver. Some cases have progressed to necrosis or death. A distinct syndrome resulting from microemboli to the feet is known as "purple toes syndrome." Discontinue warfarin sodium therapy if such phenomena are observed. Consider alternative drugs if continued anticoagulation therapy is necessary.

## 5.6 Limb Ischemia, Necrosis, and Gangrene in Patients with HIT and HITTS

Do not use warfarin sodium as initial therapy in patients with heparin-induced thrombocytopenia (HIT) and with heparin-induced thrombocytopenia with thrombosis syndrome (HITTS). Cases of limb ischemia, necrosis, and gangrene have occurred in patients with HIT and HITTS when heparin treatment was discontinued and warfarin therapy was started or continued. In some patients, sequelae have included amputation

of the involved area and/or death. Treatment with warfarin sodium may be considered after the platelet count has normalized.

## 5.7 Use in Pregnant Women with Mechanical Heart Valves

Warfarin sodium can cause fetal harm when administered to a pregnant woman. While warfarin sodium is contraindicated during pregnancy, the potential benefits of using warfarin sodium may outweigh the risks for pregnant women with mechanical heart valves at high risk of thromboembolism. In those individual situations, the decision to initiate or continue warfarin sodium should be reviewed with the patient, taking into consideration the specific risks and benefits pertaining to the individual patient's medical situation, as well as the most current medical guidelines. Warfarin sodium exposure during pregnancy causes a recognized pattern of major congenital malformations (warfarin embryopathy and fetotoxicity), fatal fetal hemorrhage, and an increased risk of spontaneous abortion and fetal mortality. If this drug is used during pregnancy, or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to a fetus [see *Use in Specific Populations (8.1)*].

## 5.8 Other Clinical Settings with Increased Risks

In the following clinical settings, the risks of warfarin sodium therapy may be increased:

- Moderate to severe hepatic impairment
- Infectious diseases or disturbances of intestinal flora (e.g., sprue, antibiotic therapy)
- Use of an indwelling catheter
- Severe to moderate hypertension
- Deficiency in protein C-mediated anticoagulant response: warfarin sodium reduces the synthesis of the naturally occurring anticoagulants, protein C and protein S. Hereditary or acquired deficiencies of protein C or its cofactor, protein S, have been associated with tissue necrosis following warfarin administration. Concomitant anticoagulation therapy with heparin for 5 to 7 days during initiation of therapy with warfarin sodium may minimize the incidence of tissue necrosis in these patients.
- Eye surgery: In cataract surgery, warfarin sodium use was associated with a significant increase in minor complications of sharp needle and local anesthesia block but not associated with potentially sight-threatening operative hemorrhagic complications. As warfarin sodium cessation or reduction may lead to serious thromboembolic complications, the decision to discontinue warfarin sodium before a relatively less invasive and complex eye surgery, such as lens surgery, should be based upon the risks of anticoagulant therapy weighed against the benefits.
- Polycythemia vera
- Vasculitis
- Diabetes mellitus

## 5.9 Endogenous Factors Affecting INR

The following factors may be responsible for **increased**INR response: diarrhea, hepatic disorders, poor nutritional state, steatorrhea, or vitamin K deficiency.

The following factors may be responsible for **decreased**INR response: increased vitamin K intake or hereditary warfarin resistance.

## 6 ADVERSE REACTIONS

The following serious adverse reactions to warfarin sodium are discussed in greater detail in other sections of the labeling:

- Hemorrhage [see *Boxed Warning*, *Warnings and Precautions (5.1)*, and *Overdosage (10)*]
- Tissue Necrosis [see Warnings and Precautions (5.2)]
- Calciphylaxis [see *Warnings and Precautions (5.3)*]
- Acute Kidney Injury [see *Warnings and Precautions (5.4)*]
- Systemic Atheroemboli and Cholesterol Microemboli [see *Warnings and Precautions* (5.5)]
- Limb Ischemia, Necrosis, and Gangrene in Patients with HIT and HITTS [see *Warnings and Precautions (5.6)*]
- Other Clinical Settings with Increased Risks [see Warnings and Precautions (5.8)]

Other adverse reactions to warfarin sodium include:

- Immune system disorders: hypersensitivity/allergic reactions (including urticaria and anaphylactic reactions)
- Vascular disorders: vasculitis
- Hepatobiliary disorders: hepatitis, elevated liver enzymes. Cholestatic hepatitis has been associated with concomitant administration of warfarin sodium and ticlopidine.
- Gastrointestinal disorders: nausea, vomiting, diarrhea, taste perversion, abdominal pain, flatulence, bloating
- Skin disorders: rash, dermatitis (including bullous eruptions), pruritus, alopecia
- Respiratory disorders: tracheal or tracheobronchial calcification
- General disorders: chills

## 7 DRUG INTERACTIONS

## 7.1 General Information

Drugs may interact with warfarin sodium through pharmacodynamic or pharmacokinetic mechanisms. Pharmacodynamic mechanisms for drug interactions with warfarin sodium are synergism (impaired hemostasis, reduced clotting factor synthesis), competitive antagonism (vitamin K), and alteration of the physiologic control loop for vitamin K metabolism (hereditary resistance). Pharmacokinetic mechanisms for drug interactions with warfarin sodium are mainly enzyme induction, enzyme inhibition, and reduced plasma protein binding. It is important to note that some drugs may interact by more than one mechanism.

More frequent INR monitoring should be performed when starting or stopping other drugs, including botanicals, or when changing dosages of other drugs, including drugs intended for short-term use (e.g., antibiotics, antifungals, corticosteroids) [see *Boxed Warning*].

Consult the labeling of all concurrently used drugs to obtain further information about interactions with warfarin sodium or adverse reactions pertaining to bleeding.

## 7.2 CYP450 Interactions

CYP450 isozymes involved in the metabolism of warfarin include CYP2C9, 2C19, 2C8, 2C18, 1A2, and 3A4. The more potent warfarin *S*-enantiomer is metabolized by CYP2C9

while the *R*-enantiomer is metabolized by CYP1A2 and 3A4.

- Inhibitors of CYP2C9, 1A2, and/or 3A4 have the potential to increase the effect (increase INR) of warfarin by increasing the exposure of warfarin.
- Inducers of CYP2C9, 1A2, and/or 3A4 have the potential to decrease the effect (decrease INR) of warfarin by decreasing the exposure of warfarin.

Examples of inhibitors and inducers of CYP2C9, 1A2, and 3A4 are below in Table 2; however, this list should not be considered all-inclusive. Consult the labeling of all concurrently used drugs to obtain further information about CYP450 interaction potential. The CYP450 inhibition and induction potential should be considered when starting, stopping, or changing dose of concomitant medications. Closely monitor INR if a concomitant drug is a CYP2C9, 1A2, and/or 3A4 inhibitor or inducer.

Enzyme	Inhibitors	Inducers
CYP2C9	amiodarone, capecitabine, cotrimoxazole, etravirine, fluconazole, fluvastatin, fluvoxamine, metronidazole, miconazole, oxandrolone, sulfinpyrazone, tigecycline, voriconazole, zafirlukast	aprepitant, bosentan, carbamazepine, phenobarbital, rifampin
	acyclovir, allopurinol, caffeine, cimetidine, ciprofloxacin, disulfiram, enoxacin, famotidine, fluvoxamine, methoxsalen, mexiletine, norfloxacin, oral contraceptives, phenylpropanolamine, propafenone, propranolol, terbinafine, thiabendazole, ticlopidine, verapamil, zileuton	montelukast, moricizine, omeprazole, phenobarbital, phenytoin, cigarette smoking
CTP3A4	fluconazole, fluoxetine, fluvoxamine, fosamprenavir, imatinib, indinavir, isoniazid, itraconazole, ketoconazole, lopinavir/ritonavir, nefazodone, nelfinavir,	armodafinil, amprenavir, aprepitant, bosentan, carbamazepine, efavirenz, etravirine, modafinil, nafcillin, phenytoin, pioglitazone, prednisone, rifampin, rufinamide

Table 2: Examples of CYP450 Interactions with Warfarin

## 7.3 Drugs that Increase Bleeding Risk

Examples of drugs known to increase the risk of bleeding are presented in Table 3. Because bleeding risk is increased when these drugs are used concomitantly with warfarin, closely monitor patients receiving any such drug with warfarin.

**Drug Class Specific Drugs** argatroban, dabigatran, bivalirudin, desirudin, Anticoagulants heparin, lepirudin aspirin, cilostazol, clopidogrel, dipyridamole. Antiplatelet Agents prasugrel, ticlopidine celecoxib, diclofenac, diflunisal, fenoprofen, Nonsteroidal Antiibuprofen, indomethacin, ketoprofen, Inflammatory ketorolac, mefenamic acid, naproxen, Agents oxaprozin, piroxicam, sulindac citalopram, desvenlafaxine, duloxetine, Serotonin Reuptake escitalopram, fluoxetine, fluvoxamine, Inhibitors milnacipran, paroxetine, sertraline, venlafaxine, vilazodone

Table 3: Drugs that Can Increase the Risk of Bleeding

## 7.4 Antibiotics and Antifungals

There have been reports of changes in INR in patients taking warfarin and antibiotics or antifungals, but clinical pharmacokinetic studies have not shown consistent effects of these agents on plasma concentrations of warfarin.

Closely monitor INR when starting or stopping any antibiotic or antifungal in patients taking warfarin.

#### 7.5 Botanical (Herbal) Products and Foods

More frequent INR monitoring should be performed when starting or stopping botanicals.

Few adequate, well-controlled studies evaluating the potential for metabolic and/or pharmacologic interactions between botanicals and warfarin sodium exist. Due to a lack of manufacturing standardization with botanical medicinal preparations, the amount of active ingredients may vary. This could further confound the ability to assess potential interactions and effects on anticoagulation.

Some botanicals may cause bleeding events when taken alone (e.g., garlic and Ginkgo biloba) and may have anticoagulant, antiplatelet, and/or fibrinolytic properties. These effects would be expected to be additive to the anticoagulant effects of warfarin sodium. Conversely, some botanicals may decrease the effects of warfarin sodium (e.g., co-enzyme Q  $_{10}$ , St. John's wort, ginseng). Some botanicals and foods can interact with warfarin sodium through CYP450 interactions (e.g., echinacea, grapefruit juice, ginkgo, goldenseal, St. John's wort).

The amount of vitamin K in food may affect therapy with warfarin sodium. Advise patients taking warfarin sodium to eat a normal, balanced diet maintaining a consistent amount of vitamin K. Patients taking warfarin sodium should avoid drastic changes in dietary habits, such as eating large amounts of green leafy vegetables.

#### **8 USE IN SPECIFIC POPULATIONS**

#### 8.1 Pregnancy

#### Risk Summary

Warfarin sodium tablets, USP are contraindicated in women who are pregnant except in pregnant women with mechanical heart valves, who are at high risk of thromboembolism, and for whom the benefits of warfarin sodium may outweigh the risks [see *Warnings and Precautions (5.7)*]. Warfarin sodium can cause fetal harm. Exposure to warfarin during the first trimester of pregnancy caused a pattern of congenital malformations in about 5% of exposed offspring. Because these data were not collected in adequate and well-controlled studies, this incidence of major birth defects is not an adequate basis for comparison to the estimated incidences in the control group or the U.S. general population and may not reflect the incidences observed in practice. Consider the benefits and risks of warfarin sodium and possible risks to the fetus when prescribing warfarin sodium to a pregnant woman.

Adverse outcomes in pregnancy occur regardless of the health of the mother or the use of medications. The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. 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

In humans, warfarin crosses the placenta, and concentrations in fetal plasma approach the maternal values. Exposure to warfarin during the first trimester of pregnancy caused a pattern of congenital malformations in about 5% of exposed offspring. Warfarin embryopathy is characterized by nasal hypoplasia with or without stippled epiphyses (chondrodysplasia punctata) and growth retardation (including low birth weight). Central nervous system and eye abnormalities have also been reported, including dorsal midline dysplasia characterized by agenesis of the corpus callosum, Dandy-Walker malformation, midline cerebellar atrophy, and ventral midline dysplasia characterized by optic atrophy. Mental retardation, blindness, schizencephaly, microcephaly, hydrocephalus, and other adverse pregnancy outcomes have been reported following warfarin exposure during the second and third trimesters of pregnancy [see *Contraindications (4)*].

#### 8.2 Lactation

#### **Risk Summary**

Warfarin was not present in human milk from mothers treated with warfarin from a limited published study. Because of the potential for serious adverse reactions, including bleeding in a breastfed infant, consider the developmental and health benefits of breastfeeding along with the mother's clinical need for warfarin sodium and any potential adverse effects on the breastfed infant from warfarin sodium or from the underlying maternal condition before prescribing warfarin sodium to a lactating woman.

#### **Clinical Considerations**

Monitor breastfeeding infants for bruising or bleeding.

Data

Human Data

Based on published data in 15 nursing mothers, warfarin was not detected in human milk. Among the 15 full-term newborns, 6 nursing infants had documented prothrombin times within the expected range. Prothrombin times were not obtained for the other 9 nursing infants. Effects in premature infants have not been evaluated.

## 8.3 Females and Males of Reproductive Potential

Pregnancy Testing

Warfarin sodium can cause fetal harm [see Use in Specific Populations (8.1)].

Verify the pregnancy status of females of reproductive potential prior to initiating warfarin sodium therapy.

Contraception

#### Females

Advise females of reproductive potential to use effective contraception during treatment and for at least 1 month after the final dose of warfarin sodium.

## 8.4 Pediatric Use

Adequate and well-controlled studies with warfarin sodium have not been conducted in any pediatric population, and the optimum dosing, safety, and efficacy in pediatric patients is unknown. Pediatric use of warfarin sodium is based on adult data and recommendations, and available limited pediatric data from observational studies and patient registries. Pediatric patients administered warfarin sodium should avoid any activity or sport that may result in traumatic injury.

The developing hemostatic system in infants and children results in a changing physiology of thrombosis and response to anticoagulants. Dosing of warfarin in the pediatric population varies by patient age, with infants generally having the highest, and adolescents having the lowest milligram per kilogram dose requirements to maintain target INRs. Because of changing warfarin requirements due to age, concomitant medications, diet, and existing medical condition, target INR ranges may be difficult to achieve and maintain in pediatric patients, and more frequent INR determinations are recommended. Bleeding rates varied by patient population and clinical care center in pediatric observational studies and patient registries. Infants and children receiving vitamin K-supplemented nutrition, including infant formulas, may be resistant to warfarin therapy, while human milk-fed infants may be sensitive to warfarin therapy.

## 8.5 Geriatric Use

Of the total number of patients receiving warfarin sodium in controlled clinical trials for which data were available for analysis, 1885 patients (24.4%) were 65 years and older, while 185 patients (2.4%) were 75 years and older. No overall differences in effectiveness or safety were observed between these patients and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

Patients 60 years or older appear to exhibit greater than expected INR response to the anticoagulant effects of warfarin [see *Clinical Pharmacology (12.3)*]. Warfarin sodium is contraindicated in any unsupervised patient with senility. Conduct more frequent monitoring for bleeding with administration of warfarin sodium to elderly patients in any

situation or with any physical condition where added risk of hemorrhage is present. Consider lower initiation and maintenance doses of warfarin sodium in elderly patients [see *Dosage and Administration (2.2, 2.3)*].

## 8.6 Renal Impairment

Renal clearance is considered to be a minor determinant of anticoagulant response to warfarin. No dosage adjustment is necessary for patients with renal impairment. Instruct patients with renal impairment taking warfarin to monitor their INR more frequently [see *Warnings and Precautions (5.4)*].

### 8.7 Hepatic Impairment

Hepatic impairment can potentiate the response to warfarin through impaired synthesis of clotting factors and decreased metabolism of warfarin. Conduct more frequent monitoring for bleeding when using warfarin sodium in these patients.

## **10 OVERDOSAGE**

## 10.1 Signs and Symptoms

Bleeding (e.g., appearance of blood in stools or urine, hematuria, excessive menstrual bleeding, melena, petechiae, excessive bruising or persistent oozing from superficial injuries, unexplained fall in hemoglobin) is a manifestation of excessive anticoagulation.

## 10.2 Treatment

The treatment of excessive anticoagulation is based on the level of the INR, the presence or absence of bleeding, and clinical circumstances. Reversal of warfarin sodium anticoagulation may be obtained by discontinuing warfarin sodium therapy and, if necessary, by administration of oral or parenteral vitamin K  $_1$ .

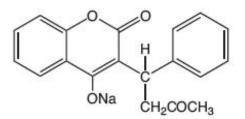
The use of vitamin K <sub>1</sub>reduces response to subsequent warfarin sodium therapy and patients may return to a pretreatment thrombotic status following the rapid reversal of a prolonged INR. Resumption of warfarin sodium administration reverses the effect of vitamin K, and a therapeutic INR can again be obtained by careful dosage adjustment. If rapid re-anticoagulation is indicated, heparin may be preferable for initial therapy.

Prothrombin complex concentrate (PCC), fresh frozen plasma, or activated Factor VII treatment may be considered if the requirement to reverse the effects of warfarin sodium is urgent. A risk of hepatitis and other viral diseases is associated with the use of blood products; PCC and activated Factor VII are also associated with an increased risk of thrombosis. Therefore, these preparations should be used only in exceptional or life-threatening bleeding episodes secondary to warfarin sodium overdosage.

## **11 DESCRIPTION**

Warfarin sodium tablets contain warfarin sodium, an anticoagulant that acts by inhibiting vitamin K-dependent coagulation factors. The chemical name of warfarin sodium is 3-( $\alpha$ -acetonylbenzyl)-4-hydroxycoumarin sodium salt, which is a racemic mixture of the *R*-and *S*-enantiomers. Crystalline warfarin sodium is an isopropanol clathrate. Its empirical

formula is C<sub>19</sub>H<sub>15</sub>NaO<sub>4</sub>, and its structural formula is represented by the following:



Crystalline warfarin sodium occurs as a white, odorless, crystalline powder that is discolored by light. It is very soluble in water, freely soluble in alcohol, and very slightly soluble in chloroform and ether.

Warfarin sodium tablets, USP for oral use also contain:

All strengths: Anhydrous lactose, corn starch, and magnesium stearate

- 1 mg: D&C Red No. 6 Barium Lake
- 2 mg: FD&C Blue No. 2 Aluminum Lake, FD&C Red No. 40 Aluminum Lake
- D&C Yellow No. 10 Aluminum Lake, FD&C
- 2.5 mg: Blue No. 2 Aluminum Lake D&C Yellow No. 10 Aluminum Lake, FD&C
- 3 mg: Blue No. 2 Aluminum Lake, FD&C Red No. 40 Aluminum Lake
- 4 mg: FD&C Blue No. 1 Aluminum Lake
- 5 mg: D&C Red No. 6 Barium Lake, D&C Yellow No.
- 6 mg: D&C Yellow No. 10 Aluminum Lake, FD&C
- Blue No. 2 Aluminum Lake
- 7.5 mg: D&C Yellow No. 10 Aluminum Lake
- 10 mg: Dye Free

## **12 CLINICAL PHARMACOLOGY**

#### 12.1 Mechanism of Action

Warfarin acts by inhibiting the synthesis of vitamin K-dependent clotting factors, which include Factors II, VII, IX, and X, and the anticoagulant proteins C and S. Vitamin K is an essential cofactor for the post ribosomal synthesis of the vitamin K-dependent clotting factors. Vitamin K promotes the biosynthesis of  $\gamma$ -carboxyglutamic acid residues in the proteins that are essential for biological activity. Warfarin is thought to interfere with clotting factor synthesis by inhibition of the C1 subunit of vitamin K epoxide reductase (VKORC1) enzyme complex, thereby reducing the regeneration of vitamin K <sub>1</sub>epoxide [see *Clinical Pharmacology (12.5)*].

#### **12.2 Pharmacodynamics**

An anticoagulation effect generally occurs within 24 hours after warfarin administration. However, peak anticoagulant effect may be delayed 72 to 96 hours. The duration of action of a single dose of racemic warfarin is 2 to 5 days. The effects of warfarin sodium may become more pronounced as effects of daily maintenance doses overlap. This is consistent with the half-lives of the affected vitamin K-dependent clotting factors and anticoagulation proteins: Factor II - 60 hours, VII - 4 to 6 hours, IX - 24 hours, X - 48 to 72 hours, and proteins C and S are approximately 8 hours and 30 hours, respectively.

### **12.3 Pharmacokinetics**

Warfarin sodium is a racemic mixture of the *R*- and *S*-enantiomers of warfarin. The *S*-enantiomer exhibits 2 to 5 times more anticoagulant activity than the *R*-enantiomer in humans, but generally has a more rapid clearance.

#### Absorption

Warfarin is essentially completely absorbed after oral administration, with peak concentration generally attained within the first 4 hours.

## Distribution

Warfarin shows a volume of distribution of about 0.14 L/kg. Approximately 99% of the drug is bound to plasma proteins.

## Metabolism

The elimination of warfarin is almost entirely by metabolism. Warfarin is stereoselectively metabolized by hepatic cytochrome P-450 (CYP450) microsomal enzymes to inactive hydroxylated metabolites (predominant route) and by reductases to reduced metabolites (warfarin alcohols) with minimal anticoagulant activity. Identified metabolites of warfarin include dehydrowarfarin, two diastereoisomer alcohols, and 4 '-, 6-, 7-, 8-, and 10-hydroxywarfarin. The CYP450 isozymes involved in the metabolism of warfarin include CYP2C9, 2C19, 2C8, 2C18, 1A2, and 3A4. CYP2C9, a polymorphic enzyme, is likely to be the principal form of human liver CYP450 that modulates the *in vivo*anticoagulant activity of warfarin. Patients with one or more variant CYP2C9 alleles have decreased S-warfarin clearance [see *Clinical Pharmacology (12.5)*].

## Excretion

The terminal half-life of warfarin after a single dose is approximately 1 week; however, the effective half-life ranges from 20 to 60 hours, with a mean of about 40 hours. The clearance of R-warfarin is generally half that of S-warfarin, thus as the volumes of distribution are similar, the half-life of R-warfarin is longer than that of S-warfarin. The half-life of R-warfarin ranges from 37 to 89 hours, while that of S-warfarin ranges from 21 to 43 hours. Studies with radiolabeled drug have demonstrated that up to 92% of the orally administered dose is recovered in urine. Very little warfarin is excreted unchanged in urine. Urinary excretion is in the form of metabolites.

#### Geriatric Patients

Patients 60 years or older appear to exhibit greater than expected INR response to the anticoagulant effects of warfarin. The cause of the increased sensitivity to the anticoagulant effects of warfarin in this age group is unknown but may be due to a combination of pharmacokinetic and pharmacodynamic factors. Limited information suggests there is no difference in the clearance of S-warfarin; however, there may be a

slight decrease in the clearance of R-warfarin in the elderly as compared to the young. Therefore, as patient age increases, a lower dose of warfarin is usually required to produce a therapeutic level of anticoagulation [see *Dosage and Administration (2.3, 2.4)*]

Asian Patients

Asian patients may require lower initiation and maintenance doses of warfarin. A noncontrolled study of 151 Chinese outpatients stabilized on warfarin for various indications reported a mean daily warfarin requirement of  $3.3 \pm 1.4$  mg to achieve an INR of 2 to 2.5. Patient age was the most important determinant of warfarin requirement in these patients, with a progressively lower warfarin requirement with increasing age.

## 12.5 Pharmacogenomics

## CYP2C9 and VKORC1 Polymorphisms

The *S*-enantiomer of warfarin is mainly metabolized to 7-hydroxywarfarin by CYP2C9, a polymorphic enzyme. The variant alleles, CYP2C9\*2 and CYP2C9\*3, result in decreased *in vitro*CYP2C9 enzymatic 7-hydroxylation of S-warfarin. The frequencies of these alleles in Caucasians are approximately 11% and 7% for CYP2C9\*2 and CYP2C9\*3, respectively.

Other CYP2C9 alleles associated with reduced enzymatic activity occur at lower frequencies, including \*5, \*6, and \*11 alleles in populations of African ancestry and \*5, \*9, and \*11 alleles in Caucasians.

Warfarin reduces the regeneration of vitamin K from vitamin K epoxide in the vitamin K cycle through inhibition of VKOR, a multiprotein enzyme complex. Certain single nucleotide polymorphisms in the VKORC1 gene (e.g., -1639G>A) have been associated with variable warfarin dose requirements. VKORC1 and CYP2C9 gene variants generally explain the largest proportion of known variability in warfarin dose requirements.

CYP2C9 and VKORC1 genotype information, when available, can assist in selection of the initial dose of warfarin [see *Dosage and Administration (2.3)*].

## **13 NONCLINICAL TOXICOLOGY**

## 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenicity, mutagenicity, or fertility studies have not been performed with warfarin.

## **14 CLINICAL STUDIES**

## 14.1 Atrial Fibrillation

In five prospective, randomized, controlled clinical trials involving 3711 patients with nonrheumatic AF, warfarin significantly reduced the risk of systemic thromboembolism including stroke (see Table 4). The risk reduction ranged from 60% to 86% in all except one trial (CAFA: 45%), which was stopped early due to published positive results from two of these trials. The incidence of major bleeding in these trials ranged from 0.6% to 2.7% (see Table 4).

	N			Thromboembolism		% Major Bleeding		
Study	Warfarin- Treated Patients	Control Patients	PT Ratio	INR	% Risk Reduction	<i>p</i> - value	Warfarin- Treated Patients	Control Patients
AFASAK	335	336	1.5- 2.0	2.8- 4.2	60	0.027	0.6	0.0
SPAF	210	211	1.3- 1.8	2.0- 4.5	67	0.01	1.9	1.9
BAATAF	212	208	1.2- 1.5	1.5- 2.7	86	<0.05	0.9	0.5
CAFA	187	191	1.3- 1.6	2.0- 3.0	45	0.25	2.7	0.5
SPINAF	260	265	1.2- 1.5	1.4- 2.8	79	0.001	2.3	1.5

Table 4: Clinical Studies of Warfarin in Non-Rheumatic AF Patients  $^{st}$ 

 \* All study results of warfarin vs. control are based on intention-to-treat analysis and include ischemic stroke and systemic thromboembolism, excluding hemorrhagic stroke and transient ischemic attacks.

Trials in patients with both AF and mitral stenosis suggest a benefit from anticoagulation with warfarin sodium [see *Dosage and Administration (2.2)*].

## 14.2 Mechanical and Bioprosthetic Heart Valves

In a prospective, randomized, open-label, positive-controlled study in 254 patients with mechanical prosthetic heart valves, the thromboembolic-free interval was found to be significantly greater in patients treated with warfarin alone compared with dipyridamole/aspirin-treated patients (p<0.005) and pentoxifylline/aspirin-treated patients (p<0.005). The results of this study are presented in Table 5.

Table 5: Prospective, Randomized, Open-Label, Positive-Controlled
Clinical Study of Warfarin in Patients with Mechanical Prosthetic
Heart Valves

	Patients Treated With				
Event	Warfarin	Dipyridamole/Aspirin	Pentoxifylline/Aspirin		
Thromboembolism	2.2/100 py	8.6/100 py	7.9/100 py		
Major Bleeding	2.5/100 py	0.0/100 py	0.9/100 py		

py=patient years

In a prospective, open-label, clinical study comparing moderate (INR 2.65) versus high intensity (INR 9.0) warfarin therapies in 258 patients with mechanical prosthetic heart valves, thromboembolism occurred with similar frequency in the two groups (4.0 and 3.7 events per 100 patient years, respectively). Major bleeding was more common in the high intensity group. The results of this study are presented in Table 6.

#### Table 6: Prospective, Open-Label Clinical Study of Warfarin in Patients with Mechanical Prosthetic Heart Valves

Event	Moderate Warfarin Therapy INR 2.65	High Intensity Warfarin Therapy INR 9.0
Thromboembolism	4.0/100 py	3.7/100 py
Major Bleeding	0.95/100 py	2.1/100 py

py=patient years

In a randomized trial in 210 patients comparing two intensities of warfarin therapy (INR 2.0 to 2.25 vs. INR 2.5 to 4.0) for a three-month period following tissue heart valve replacement, thromboembolism occurred with similar frequency in the two groups (major embolic events 2.0% vs. 1.9%, respectively, and minor embolic events 10.8% vs. 10.2%, respectively). Major hemorrhages occurred in 4.6% of patients in the higher intensity INR group compared to zero in the lower intensity INR group.

#### 14.3 Myocardial Infarction

WARIS (The Warfarin Re-Infarction Study) was a double-blind, randomized study of 1214 patients 2 to 4 weeks post-infarction treated with warfarin to a target INR of 2.8 to 4.8. The primary endpoint was a composite of total mortality and recurrent infarction. A secondary endpoint of cerebrovascular events was assessed. Mean follow-up of the patients was 37 months. The results for each endpoint separately, including an analysis of vascular death, are provided in Table 7.

Event	Warfarin (N=607)	Placebo (N=607)	RR (95% CI)	% Risk Reduction ( <i>p</i> -value)
Total Patient Years of Follow- up	2018	1944		
Total Mortality Vascular Death	94 (4.7/100 py) 82 (4.1/100 py)	py)	0.76 (0.60, 0.97) 0.78 (0.60, 1.02)	24 (p=0.030) 22 (p=0.068)
Recurrent MI	82 (4.1/100 py)	124 (6.4/100 py)	0.66 (0.51, 0.85)	34 (p=0.001)
Cerebrovascular Event	py)	py)	0.75)	54 (p=0.002)

RR=Relative risk; Risk reduction=(1 - RR); CI=Confidence interval; MI=Myocardial infarction; py=patient years

WARIS II (The Warfarin, Aspirin, Re-Infarction Study) was an open-label, randomized study of 3630 patients hospitalized for acute myocardial infarction treated with warfarin to a target INR 2.8 to 4.2, aspirin 160 mg per day, or warfarin to a target INR 2.0 to 2.5 plus aspirin 75 mg per day prior to hospital discharge. The primary endpoint was a composite of death, nonfatal reinfarction, or thromboembolic stroke. The mean duration of observation was approximately 4 years. The results for WARIS II are provided in Table 8.

Event		Warfarin (N=1216)	Aspirin plus Warfarin (N=1208)	Rate Ratio (95% CI)	<i>p</i> - value
Major Bleeding *	8	33	28	3.35 †(ND) 4.00 ‡(ND)	ND ND
Minor Bleeding <sup>§</sup>	39	103	133	3.21 †(ND) 2.55 ‡(ND)	ND ND
Composite Endpoints ¶	241	203	181	0.81 (0.69- 0.95) † 0.71 (0.60- 0.83) ‡	0.03 0.001
Reinfarction	117	90	69	0.56 (0.41- 0.78) † 0.74 (0.55- 0.98) ‡	<0.001 0.03
Thromboembolic Stroke	32	17	17	0.52 (0.28- 0.98) † 0.52 (0.28- 0.97) ‡	0.03 0.03
Death	92	96	95		0.82

#### Table 8: WARIS II - Distribution of Events According to Treatment Group

CI=confidence interval

ND=not determined

- \* Major bleeding episodes were defined as nonfatal cerebral hemorrhage or bleeding necessitating surgical intervention or blood transfusion.
- † The rate ratio is for aspirin plus warfarin as compared with aspirin.
- ‡ The rate ratio is for warfarin as compared with aspirin.
- § Minor bleeding episodes were defined as non-cerebral hemorrhage not necessitating surgical intervention or blood transfusion.
- Includes death, nonfatal reinfarction, and thromboembolic cerebral stroke.

There were approximately four times as many major bleeding episodes in the two groups receiving warfarin than in the group receiving aspirin alone. Major bleeding episodes were not more frequent among patients receiving aspirin plus warfarin than among those receiving warfarin alone, but the incidence of minor bleeding episodes was higher in the combined therapy group.

#### **15 REFERENCES**

OSHA Hazardous Drugs. OSHA. http://www.osha.gov/SLTC/hazardousdrugs/index.html.

#### **16 HOW SUPPLIED/STORAGE AND HANDLING**

Warfarin Sodium Tablets, USP are single-scored, flat, beveled, capsule-shaped tablets, engraved numerically with 1, 2,  $2\frac{1}{2}$ , 3, 4, 5, 6,  $7\frac{1}{2}$ , or 10 on one side and engraved with "WARFARIN" on top of "TARO" on the other side. They are packaged with potencies and colors as follows:

	Bottles of 100	Bottles of 1000	Bottles of 5000	Cartons of 100 10×10 blister packs
1 mg Pink	NDC 51672-	NDC 51672-	NDC 51672-	NDC 51672-
	4027-1	4027-3	4027-7	4027-0
2 mg Lavender	NDC-51672-	NDC-51672-	NDC-51672-	NDC-51672-
	4028-1	4028-3	4028-7	4028-0
2.5 mg Green	NDC 51672-	NDC 51672-	NDC 51672-	NDC 51672-
	4029-1	4029-3	4029-7	4029-0
3 mg Tan	NDC 51672-	NDC 51672-	NDC 51672-	NDC 51672-
	4030-1	4030-3	4030-7	4030-0
4 mg Blue	NDC 51672-	NDC 51672-	NDC 51672-	NDC 51672-
	4031-1	4031-3	4031-7	4031-0
5 mg Peach	NDC 51672-	NDC 51672-	NDC 51672-	NDC 51672-
	4032-1	4032-3	4032-7	4032-0
6 mg Teal	NDC 51672-	NDC 51672-	NDC 51672-	NDC 51672-
	4033-1	4033-3	4033-7	4033-0
7.5 mg Yellow	NDC 51672- 4034-1	NDC 51672- 4034-3		NDC 51672- 4034-0

Protect from light and moisture. **Store at 20° to 25°C (68° to 77°F)**[see USP Controlled Room Temperature].

Dispense in a tight, light-resistant container as defined in the USP.

Store the hospital unit-dose blister packages in the carton until contents have been used.

Special Handling

Procedures for proper handling and disposal of potentially hazardous drugs should be considered. Guidelines on this subject have been published [see *References (15)*].

Pharmacy and clinical personnel who are pregnant should avoid exposure to crushed or broken tablets [see *Use in Specific Populations (8.1)*].

## **17 PATIENT COUNSELING INFORMATION**

Advise the patient to read the FDA-approved patient labeling (Medication Guide).

## Instructions for Patients

Advise patients to:

- Strictly adhere to the prescribed dosage schedule [see *Dosage and Administration* (2.1)].
- If the prescribed dose of warfarin sodium is missed, take the dose as soon as possible on the same day but do not take a double dose of warfarin sodium the next day to make up for missed doses [see *Dosage and Administration (2.6)*].
- Obtain prothrombin time tests and make regular visits to their physician or clinic to monitor therapy [see *Dosage and Administration (2.1)*].
- Be aware that if therapy with warfarin sodium is discontinued, the anticoagulant effects of warfarin sodium may persist for about 2 to 5 days [see *Clinical Pharmacology (12.2)*].
- Avoid any activity or sport that may result in traumatic injury [see *Use in Specific Populations (8.4)*]. And to tell their physician if they fall often as this may increase their risk for complications.
- Eat a normal, balanced diet to maintain a consistent intake of vitamin K. Avoid drastic changes in dietary habits, such as eating large amounts of leafy, green vegetables [see *Drug Interactions (7.5)*].
- Contact their physician to report any serious illness, such as severe diarrhea, infection, or fever [see *Warnings and Precautions (5)* and *Adverse Reactions (6)*].
- Immediately contact their physician when experiencing pain and discoloration of the skin (a purple bruise like rash) mostly on areas of the body with a high fat content, such as breasts, thighs, buttocks, hips and abdomen [see *Warnings and Precautions* (5.2)].
- Immediately contact their physician when experiencing any unusual symptom or pain since warfarin sodium may cause small cholesterol or athero emboli. On feet it may appear as a sudden cool, painful, purple discoloration of toe(s) or forefoot [see *Warnings and Precautions (5.5)*].

- Immediately contact their physician when taking warfarin sodium after any heparin formulation therapy and experiencing bloody or black stools or appearence of bruises, or bleeding [see *Warnings and Precautions (5.6)*].
- To tell all of their healthcare professionals and dentists that they are taking warfarin sodium. This should be done before they have any surgery or dental procedure [see *Dosage and Administration (2.7)*].
- Carry identification stating that they are taking warfarin sodium.

## **Bleeding Risks**

Advise patients to:

• Notify their physician immediately if any unusual bleeding or symptoms occur. Signs and symptoms of bleeding include: pain, swelling or discomfort, prolonged bleeding from cuts, increased menstrual flow or vaginal bleeding, nosebleeds, bleeding of gums from brushing, unusual bleeding or bruising, red or dark brown urine, red or tar black stools, headache, dizziness, or weakness [see *Box Warning* and *Warnings and Precautions (5.1)*].

## **Concomitant Medications and Botanicals (Herbals)**

Advise patients to:

• Not take or discontinue any other drug, including salicylates (e.g., aspirin and topical analgesics), other over-the-counter drugs, and botanical (herbal) products except on advice of your physician [see *Drug Interactions (7)*].

## **Pregnancy and Nursing**

Advise patients to:

- Notify their physician if they are pregnant or planning to become pregnant or considering breast feeding [see *Use in Specific Populations (8.1, 8.2, 8.3)*].
- Avoid warfarin sodium during pregnancy except in pregnant women with mechanical heart valves, who are at risk of thromboembolism [see *Contraindications (4)*]. Use effective measures to avoid pregnancy while taking warfarin sodium. This is very important because their unborn baby could be seriously harmed if they take warfarin sodium while they are pregnant [see *Use in Specific Populations (8.1, 8.3)*].

Mfd. by: Taro Pharmaceutical Industries Ltd., Haifa Bay, Israel 2624761 Dist. by: **Taro Pharmaceuticals U.S.A., Inc.,**Hawthorne, NY 10532 Revised: August 2022 5200706-0822-20

## MEDICATION GUIDE Warfarin (war' far in) Sodium Tablets, USP

## What is the most important information I should know about warfarin sodium tablets?

Warfarin sodium can cause bleeding which can be serious and sometimes lead to death. This is because warfarin sodium is a blood thinner medicine that lowers the chance of blood clots forming in your body.

- You may have a higher risk of bleeding if you take warfarin sodium and:
  - are 65 years of age or older
  - have a history of stomach or intestinal bleeding

- have high blood pressure (hypertension)
- have a history of stroke, or "mini-stroke" (transient ischemic attack or TIA)
- have serious heart disease
- $\circ~$  have a low blood count or cancer
- have had trauma, such as an accident or surgery
- have kidney problems
- take other medicines that increase your risk of bleeding, including:
  - a medicine that contains heparin
  - other medicines to prevent or treat blood clots
  - nonsteroidal anti-inflammatory drugs (NSAIDs)
- take warfarin sodium for a long time. Warfarin sodium is the active ingredient in warfarin sodium tablets, USP.

**Tell your healthcare provider if you take any of these medicines. Ask your healthcare provider if you are not sure if your medicine is one listed above.** Many other medicines can interact with warfarin sodium and affect the dose you need or increase warfarin sodium side effects. Do not change or stop any of your medicines or start any new medicines before you talk to your healthcare provider.

## Do not take other medicines that contain warfarin sodium while taking warfarin sodium tablets, USP.

- Get your regular blood test to check for your response to warfarin sodium. This blood test is called an INR test. The INR test checks to see how fast your blood clots. Your healthcare provider will decide what INR numbers are best for you. Your dose of warfarin sodium will be adjusted to keep your INR in a target range for you.
- Call your healthcare provider right away if you get any of the following signs or symptoms of bleeding problems:
  - pain, swelling, or discomfort
  - headaches, dizziness, or weakness
  - $\circ\;$  unusual bruising (bruises that develop without known cause or grow in size)
  - nosebleeds
  - bleeding gums
  - bleeding from cuts takes a long time to stop
  - menstrual bleeding or vaginal bleeding that is heavier than normal
  - pink or brown urine
  - red or black stools
  - coughing up blood
  - $\circ\;$  vomiting blood or material that looks like coffee grounds
- Some foods and beverages can interact with warfarin sodium and affect your treatment and dose.
  - Eat a normal, balanced diet. Talk to your healthcare provider before you make any diet changes. Do not eat large amounts of leafy, green vegetables. Leafy, green vegetables contain vitamin K. Certain vegetable oils also contain large amounts of vitamin K. Too much vitamin K can lower the effect of warfarin sodium.
- Always tell all of your healthcare providers that you take warfarin sodium.
- Wear or carry information that you take warfarin sodium.

# See " What are the possible side effects of warfarin sodium tablets?" for more information about side effects.

## What are warfarin sodium tablets?

Warfarin sodium is prescription medicine used to treat blood clots and to lower the chance of blood clots forming in your body. Blood clots can cause a stroke, heart attack, or other serious conditions if they form in the legs or lungs.

#### Who should not take warfarin sodium tablets? Do not take warfarin sodium tablets if:

- your risk of having bleeding problems is higher than the possible benefit of treatment. Your healthcare provider will decide if warfarin sodium is right for you.
- you are pregnant unless you have a mechanical heart valve. Warfarin sodium may cause birth defects, miscarriage, or death of your unborn baby.
- you are allergic to warfarin or any of the other ingredients in warfarin sodium tablets, USP. See the end of this leaflet for a complete list of ingredients in warfarin sodium tablets, USP.

## Before taking warfarin sodium tablets, tell your healthcare provider about all of your medical conditions, including if you:

- have bleeding problems
- fall often
- have liver problems
- have kidney problems or are undergoing dialysis
- have high blood pressure
- have a heart problem called congestive heart failure
- have diabetes
- plan to have any surgery or a dental procedure
- are pregnant or plan to become pregnant. See "Who should not take warfarin sodium tablets?"
  - Your healthcare provider will do a pregnancy test before you start treatment with warfarin sodium. Females who can become pregnant should use effective birth control during treatment, and for at least 1 month after the last dose of warfarin sodium.
- are breastfeeding. You and your healthcare provider should decide if you will take warfarin sodium and breastfeed. Check your baby for bruising or bleeding if you take warfarin sodium and breastfeed.

Tell all of your healthcare providers and dentists that you are taking warfarin sodium. They should talk to the healthcare provider who prescribed warfarin sodium for you before you have **any**surgery or dental procedure. Your warfarin sodium may need to be stopped for a short time or you may need your dose adjusted.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Some of your other medicines may affect the way warfarin sodium works. Certain medicines may increase your risk of bleeding. See "What is the most important information I should know about warfarin sodium tablets?"

## How should I take warfarin sodium tablets?

- **Take warfarin sodium exactly as prescribed.**Your healthcare provider will adjust your dose from time to time depending on your response to warfarin sodium.
- You must have regular blood tests and visits with your healthcare provider to monitor your condition.
- If you miss a dose of warfarin sodium, call your healthcare provider. Take

the dose as soon as possible on the same day. **Do not**take a double dose of warfarin sodium the next day to make up for a missed dose.

- Call your healthcare provider right away if you:
  - take too much warfarin sodium
  - $\circ\;$  are sick with diarrhea, an infection, or have a fever
  - $\circ\;$  fall or injure yourself, especially if you hit your head.
  - Your healthcare provider may need to check you.

#### What should I avoid while taking warfarin sodium tablets?

• Do not do any activity or sport that may cause a serious injury.

#### What are the possible side effects of warfarin sodium tablets? Warfarin sodium tablets may cause serious side effects, including:

- See "What is the most important information I should know about warfarin sodium tablets?"
- **Death of skin tissue (skin necrosis or gangrene).** This can happen soon after starting warfarin sodium. It happens because blood clots form and block blood flow to an area of your body. Call your healthcare provider right away if you have pain, color, or temperature change to any area of your body. You may need medical care right away to prevent death or loss (amputation) of your affected body part.
- **Kidney problems.** Kidney injury may happen in people who take warfarin sodium. Tell your healthcare provider right away if you develop blood in your urine. Your healthcare provider may do tests more often during treatment with warfarin sodium to check for bleeding if you already have kidney problems.
- "**Purple toes syndrome.**"Call your healthcare provider right away if you have pain in your toes and they look purple in color or dark in color.

These are not all of the side effects of warfarin sodium. 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.

#### How should I store warfarin sodium tablets, USP?

- Store warfarin sodium at room temperature between 68°F to 77°F (20°C to 25°C).
- Keep warfarin sodium in a tightly closed container.
- Keep warfarin sodium out of the light and moisture.
- Follow your healthcare provider or pharmacist instructions about the right way to throw away outdated or unused warfarin sodium.
- Females who are pregnant should not handle crushed or broken warfarin sodium tablets.

## Keep warfarin sodium tablets, USP and all medicines out of the reach of children.

## General information about the safe and effective use of warfarin sodium tablets.

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use warfarin sodium for a condition for which it was not prescribed. Do not give warfarin sodium to other people, even if they have the same symptoms that you have. It may harm them. You can ask your healthcare provider or pharmacist for information about warfarin sodium that is written for health professionals. What are the ingredients in warfarin sodium tablets, USP? Active ingredient:warfarin sodium **Inactive ingredients:**anhydrous lactose, corn starch, and magnesium stearate, in addition: 1 mg: D&C Red No. 6 Barium Lake 2 mg: FD&C Blue No. 2 Aluminum Lake, FD&C Red No. 40 Aluminum Lake 2.5 D&C Yellow No. 10 Aluminum Lake, FD&C Blue No. 2 Aluminum Lake mg: D&C Yellow No. 10 Aluminum Lake, FD&C Blue No. 2 Aluminum Lake, FD&C Red 3 mg: No. 40 Aluminum Lake 4 mg: FD&C Blue No. 1 Aluminum Lake 5 mg: D&C Red No. 6 Barium Lake, D&C Yellow No. 10 Aluminum Lake 6 mg: D&C Yellow No. 10 Aluminum Lake, FD&C Blue No. 2 Aluminum Lake 7.5 D&C Yellow No. 10 Aluminum Lake mg: 10 Dye Free mg: For more information, go to www.taro.com or call 1-866-923-4914.

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

Mfd. by: Taro Pharmaceutical Industries Ltd., Haifa Bay, Israel 2624761 Dist. by: **Taro Pharmaceuticals U.S.A., Inc.,**Hawthorne, NY 10532 Revised: August 2022 5200706-0822-20

## PRINCIPAL DISPLAY PANEL - 1 mg Tablet Bottle Label

#### NDC 51672-4027-1 100 Tablets

Warfarin Sodium Tablets, USP Crystalline

1 mg

#### Dispense with Medication Guide

PROTECT FROM LIGHT. HIGHLY POTENT ANTICOAGULANT.

**WARNING:**Serious bleeding results from overdosage. Do not use or dispense before reading directions and warnings in accompanying product information.

Rx only



## PRINCIPAL DISPLAY PANEL - 2 mg Tablet Bottle Label

#### NDC 51672-4028-1 100 Tablets

Warfarin Sodium Tablets, USP Crystalline

#### 2 mg

Dispense with Medication Guide

PROTECT FROM LIGHT. HIGHLY POTENT ANTICOAGULANT.

**WARNING:**Serious bleeding results from overdosage. Do not use or dispense before reading directions and warnings in accompanying product information.

#### **Rx only**



#### NDC 51672-4029-1 100 Tablets

Warfarin Sodium Tablets, USP Crystalline

#### 2.5 mg

#### Dispense with Medication Guide

PROTECT FROM LIGHT. HIGHLY POTENT ANTICOAGULANT.

**WARNING:**Serious bleeding results from overdosage. Do not use or dispense before reading directions and warnings in accompanying product information.

#### **Rx only**



## PRINCIPAL DISPLAY PANEL - 3 mg Tablet Bottle Label



Warfarin Sodium Tablets, USP Crystalline

3 mg

Dispense with Medication Guide

PROTECT FROM LIGHT. HIGHLY POTENT ANTICOAGULANT.

**WARNING:**Serious bleeding results from overdosage. Do not use or dispense before reading directions and warnings in accompanying product information.

**Rx only** 

## **PRINCIPAL DISPLAY PANEL - 4 mg Table Bottle Label**

NDC 51672-4031-1 100 Tablets

Warfarin Sodium Tablets, USP Crystalline

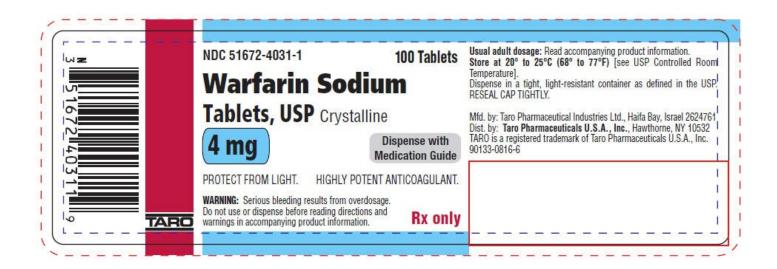
4 mg

Dispense with Medication Guide

PROTECT FROM LIGHT. HIGHLY POTENT ANTICOAGULANT.

**WARNING:**Serious bleeding results from overdosage. Do not use or dispense before reading directions and warnings in accompanying product information.

#### **Rx only**



#### **PRINCIPAL DISPLAY PANEL - 5 mg Table Bottle Label**

NDC 51672-4032-1 100 Tablets

Warfarin Sodium Tablets, USP Crystalline

5 mg

Dispense with Medication Guide

PROTECT FROM LIGHT. HIGHLY POTENT ANTICOAGULANT.

**WARNING:**Serious bleeding results from overdosage. Do not use or dispense before reading directions and warnings in accompanying product information.

**Rx only** 



**PRINCIPAL DISPLAY PANEL - 6 mg Tablet Bottle Label** 

NDC 51672-4033-1 100 Tablets

Warfarin Sodium Tablets, USP Crystalline

6 mg

Dispense with Medication Guide

PROTECT FROM LIGHT. HIGHLY POTENT ANTICOAGULANT.

**WARNING:**Serious bleeding results from overdosage. Do not use or dispense before reading directions and warnings in accompanying product information.

#### **Rx only**



**PRINCIPAL DISPLAY PANEL - 7.5 mg Tablet Bottle Label** 

NDC 51672-4034-1 100 Tablets

Warfarin Sodium Tablets, USP Crystalline

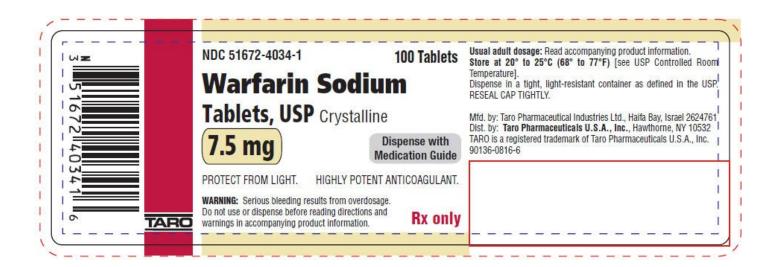
7.5 mg

Dispense with Medication Guide

PROTECT FROM LIGHT. HIGHLY POTENT ANTICOAGULANT.

**WARNING:**Serious bleeding results from overdosage. Do not use or dispense before reading directions and warnings in accompanying product information.

**Rx only** 



#### **PRINCIPAL DISPLAY PANEL - 10 mg Tablet Bottle Label**

NDC 51672-4035-1 100 Tablets

Warfarin Sodium Tablets, USP Crystalline

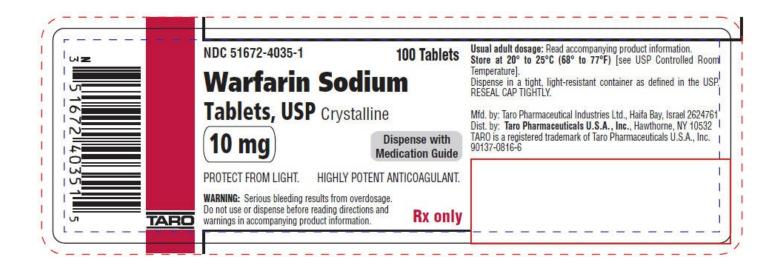
#### 10 mg

#### Dispense with Medication Guide

PROTECT FROM LIGHT. HIGHLY POTENT ANTICOAGULANT.

**WARNING:**Serious bleeding results from overdosage. Do not use or dispense before reading directions and warnings in accompanying product information.

#### **Rx only**



WARFARIN SODIUM warfarin sodium tablet					
-					
Product Information					
Product Type	HUMAN PRESCRIPTION DRUG	ltem Co	de (Source)	NDC:5	1672-4027
Route of Administration	ORAL				
A ative leave dia ut/A ative	Malaha				
Active Ingredient/Active	моюту				
Ingre	dient Name		<b>Basis of Stre</b>	ngth	Strength
WARFARIN SODIUM (UNII: 6153C)	MOCL) (WARFARIN - UNII:5Q7ZVV7	6EI)	WARFARIN SODIUM	1	1 mg

Product (	Characteristics		
Color	pink	Score	2 pieces
Shape	OVAL (Flat beveled capsule shaped)	Size	11mm
Flavor		Imprint Code	1;WARFARIN;TARO
Contains			

## Packaging

#	ltem Code	Package Description	Marketing Start Date	Marketing End Date		
1	NDC:51672- 4027-1	100 in 1 BOTTLE; Type 0: Not a Combination Product	07/15/1999			
2	NDC:51672- 4027-3	1000 in 1 BOTTLE; Type 0: Not a Combination Product	07/15/1999			
3	NDC:51672- 4027-7	5000 in 1 BOTTLE; Type 0: Not a Combination Product	07/15/1999			
4	NDC:51672- 4027-0	10 in 1 CARTON	07/15/1999	06/10/2025		
4	4 10 in 1 BLISTER PACK; Type 0: Not a Combination Product					
M	larketing	Information				

Marketing	Application Number or Monograph	Marketing Start	Marketing End
Category	Citation	Date	Date
ANDA	ANDA040301	07/15/1999	

WARFARIN SODIUM warfarin sodium tablet					
Product Information					
Product Type	HUMAN PRESCRIPTION DRUG	Item Co	de (Source)	NDC:5	1672-4028
Route of Administration	ORAL				
Active Ingredient/Active	Moiety				
Ingr	edient Name		<b>Basis of Stre</b>	ngth	Strength
WARFARIN SODIUM (UNII: 61530	WMOCL) (WARFARIN - UNII:5Q7ZVV7	'6EI)	WARFARIN SODIUM	1	2 mg

Strength

## **Product Characteristics**

Color	purple (Lavender)	Score	2 pieces
Shape	OVAL (Flat beveled capsule shaped)	Size	11mm
Flavor		Imprint Code	2;WARFARIN;TARO
Contains			

## Packaging

#	ltem Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:51672- 4028-1	100 in 1 BOTTLE; Type 0: Not a Combination Product	07/15/1999	
2	NDC:51672- 4028-3	1000 in 1 BOTTLE; Type 0: Not a Combination Product	07/15/1999	
3	NDC:51672- 4028-7	5000 in 1 BOTTLE; Type 0: Not a Combination Product	07/15/1999	
4	NDC:51672- 4028-0	10 in 1 CARTON	07/15/1999	06/10/2025
4		10 in 1 BLISTER PACK; Type 0: Not a Combination Product		

## **Marketing Information**

Marketing	Application Number or Monograph	Marketing Start	Marketing End
Category	Citation	Date	Date
ANDA	ANDA040301	07/15/1999	

WARFARIN SODIUM warfarin sodium tablet			
Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:51672-4029
Route of Administration	ORAL		
Active Ingredient/Active	Moiety		
Ingre	dient Name	Basis of Stre	ength Strength

2.5 mg

Shape       OVAL (Flat beveled capsule shaped)       Size       11mm         Havor       Imprint Code       2;1;2;WARFARIN;TARO         Imprint Code       2;1;2;WARFARIN;TARO         Package Description       Marketing Start       Marketing End Date         Moc:51672- 4029-1       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       07/15/1999         NDC:51672- 4029-3       1000 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       01/15/1999         NDC:51672- 4029-7       5000 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       06/10/2025         NDC:51672- 4029-0       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       06/10/2025         Imprint Code       100 in 1 BUTTLE; Type 0: Not a Combination Product       07/15/1999       06/10/2025         Imprint Code       10 in 1 CARTON       07/15/1999       06/10/2025         Imprint Code       10 in 1 BLISTER PACK; Type 0: Not a Combination Product       07/15/1999       06/10/2025         Imprint Code       10 in 1 BLISTER PACK; Type 0: Not a Combination Product       07/15/1999       06/10/2025         Imprint Code       10 in 1 BLISTER PACK; Type 0: Not a Combination Product       07/15/1999       06/10/2025         Imprint Code       10 in 1 BLISTER PACK; Type 0: Not a Combination Product	Ingredient Name       Strength         NHYDROUS LACTOSE (UMI: 35YSLH9PMK) TARCH, CORN (UMI: 08323NYS)) AGINESIUM STREATE (UMI: 70097M6130) SC YELLOW NO. 10 ALUMINUM LAKE (UNII: CO3XH3DET6) DAC BLUE NO. 2ALUMINUM LAKE (UNII: CO3XH3DET6) DAC BLUE NO. 2ALUMINUM LAKE (UNII: 4A0J3LG584)       Score 2 pieces         roduct Characteristics         odval. (Flat beveled capsule shaped)       Size       11mm         avor       2 nices         ackaging         tem Code       Package Description       Marketing Start       Marketing Start       Marketing End Date         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       06/10/2025         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       06/10/2025         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       06/10/2025         NDC:51672-       Marketing Start       Marketing Start       Marketing Start       Marketing Start       Marketing Start       Marketing Start       Date         NDC:51672-	1						
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ATARCH, CORN (UNII: 082321Y735)) ATAGRESUM STEARATE (UNII: 70397M6I30) SOC YELLOW NO. 10 A LUMINUM LAKE (UNII: 4A0J3LG584) Product Characteristics Color green Score 2 pieces Shape OVAL (Flat beveled capsule shaped) Size 11mm Flavor Imprint Code 2:1:2:WARFARIN;TARO Contains Marketing Start Marketing End Date Date Date Date Date Date Date Date	TARKETING LORN: (UNII: 2093/Y36J3)         AGNESIUM STEARATE (UNII: 70097MG/30)         SC VELLOW NO. 10 A LUMINUM LAKE (UNII: Q3XH3DET6)         Data Standard (UNII: Q3XH3DET6)         Score 2 pieces         Score 2 pieces         Data Standard (UNII: AQ)3LG584)         Score 2 pieces         Data Standard (UNII: AQ)3LG584)         Score 2 pieces         Data Standard (UNII: C93XH3DET6)         OVAL (Flat beveled capsule shaped)       Size 11mm         Data Standard (UNII: C93XH3DET6)         Score 2 pieces       Distandard (UNII: C93XH3DET6)         Score 2 pieces         Distandard (UNII: C93XH3DET6)         Distandard (UNII: C93XH3DET6) <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>Strength</td>			-				Strength
MAGNESIUM STEARATE (UNII: 70097/M6I30) DAC YELLOW NO. 10 ALUMINUM LAKE (UNII: C03XH3DET6). Product Characteristics Color green Score 2 pieces Score 2 pieces Score 2 pieces Size 11mm Imprint Code 2(1)(2)/WARFARIN;TARO Product Characteristics Product Characteristics Color green OVAL (Flat beveled capsule shaped) Size 11mm Imprint Code 2(1)(2)/WARFARIN;TARO Product Di n 1 BOTTLE; Type 0: Not a Combination Marketing Start Marketing End Date Product MDC:51672- 100 in 1 BOTTLE; Type 0: Not a Combination Product Di n 1 BOTTLE; Type 0: Not a Combination MARKeting Information Product I Di n 1 BOTTLE; Type 0: Not a Combination NDC:51672- 100 in 1 BOTTLE; Type 0: Not a Combination Product UNIC Product Marketing Information Marketing Application Number or Monograph Marketing Start Marketing End Date Marketing End Date Marketing End Date Marketing Component Date Marketing End Date Marketing End Date Marketing End Date Marketing End Date Marketing Component Marketing Start Marketing End Date Marketing Citation NDA ANDA040301 07/15/1999 06/10/2025 WARFARIN SODIUM Marketing HUMAN PRESCRIPTION DRUG Kem Code (Source) NDC:51672-4030 Route of Administration ORAL Marketing Marketing Citation Product Type HUMAN PRESCRIPTION DRUG Kem Code (Source) NDC:51672-4030 Route of Administration ORAL	AGNESSIUM STEARATE (UNII: 70097M6130) SC YELLOW NO. 10 ALUMINUM LAKE (UNII: CQ3XH3DET6) DGC BLUE NO. 2ALUMINUM LAKE (UNII: AQJ3LG584) TOULCT Characteristics Dolor green <u>Score</u> 2 pieces hape OVAL (Flat beveled capsule shaped) avor <u>Product</u> Item Code <u>Package Description</u> NDC:51672- 100 in 1 BOTTLE; Type 0: Not a Combination NDC:51672- Product NDC:51672- 100 in 1 BOTTLE; Type 0: Not a Combination NDC:51672- 2029-0 101 in 1 CARTON NDC:51672- 102 in 1 CARTON NDC:51672- 101 in 1 CARTON NDC:51672-							
Description       Score       2 piccs         Size       11mm         Isvor       OVAL (flat beveled capsule shaped)       Size       11mm         Isvor       OVAL (flat beveled capsule shaped)       Size       11mm         Isvor       Imm       Imm       Imm         Contains       Imprint Code       2 li2:WARFARIN;TARO         Packaging         tem Code       Package Description       Marketing Start       Marketing Information         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       07/15/1999       Imm         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       06/10/2025       06/10/2025         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       06/10/2025       06/10/2025         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       06/10/2025       06/10/2025         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       06/10/2025       06/10/2025         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       06/10/2025       06/10/2025         NDC:51672-       10 in 1 CARTON       07/15/1999       06/10/2025       07/15/1999 <td>Scc YELLOW NO. 10 ALUMINUM LAKE (UNII: CQ3XH3DET6) Scc BLUE NO. 2ALUMINUM LAKE (UNII: 4AQ)3LG584)       Image: Content of /td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td>	Scc YELLOW NO. 10 ALUMINUM LAKE (UNII: CQ3XH3DET6) Scc BLUE NO. 2ALUMINUM LAKE (UNII: 4AQ)3LG584)       Image: Content of			•				
EDGC BLUE NO. 2ALUMINUM LAKE (UNII: 4AQ)3LG584)         Product Characteristics         Color       green       Score       2 pieces         Size       11mm         Product Characteristics         Color       green       Score       2 pieces         Imprint Code       2 pieces         Product         Product       Marketing Start       Marketing End Date         MOC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       06/10/2025         MOC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       06/10/2025         MOC:51672-       10 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       06/10/2025         A DC:51672-       10 in 1 CARTON       07/15/1999       Marketing Start       Marketing Start       Marketing Start       Marketing Start       Marketing Start       Marketing Start       Marketing End Date         NDC:51672-       10 in 1 BUSTER PACK; Type 0: Not a Combination       07/15/1999       06/10/2025       Date       Date       Date	Desc BLUE NO. 2ALUMINUM LAKE (UNII: 4AQ)3LG584)         roduct Characteristics         Score       2 pieces         Janow         Janow       2 pieces         Janow       2 pieces         Janow       Score       2 pieces         Janow       Janow         avor       Score       2 pieces         Janow       Janow       Janow         Janow       Diverse       2 pieces         Janow       Janow         Janow       Janow         Janow       Size       Janow         Janow       Pieces         Janow       Pieces         Janow       Disting colspan="2">Janow         Marketing Start       Marketing Start         Janow       Janow         Janow       Janow         Janow       Janow         Janow       Janow <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Product Characteristics         Score 2 pieces         Shape       OVAL (Flat beveled capsule shaped)       Size 11mm         Imprint Code 2:1;2;WARFARIN;TARO         Packaging         Warketing Start       Marketing Start       Marketing Start         Packaging         Package Description       Marketing Start       Marketing End Date         OVAL (Flat beveled capsule shaped)       OVAL (Flat beveled capsule shaped)         Size 11mm         Imprint Code       2:1;2;WARFARIN;TARO         Packaging         Package Description       Marketing Start       Marketing End Date         MDC:51672-       1000 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       06/10/2025       0         MDC:51672-       10 in 1 CARTON       07/15/1999       06/10/2025       0       0         Marketing Information         Marketing Start       Marketing End Date         VARFARIN SODIUM         VARFARIN SODIUM         VARFARIN SODIUM         VARFARIN Code (	roduct Characteristics         Score       2 pieces         hape       OVAL (Flat beveled capsule shaped)       Size       11mm         more colspan="2">avor       Imm       Colspan="2">Colspan="2"         Colspan="2">Colspan="2"       Colspan="2"        Colspan="2"       Colspan="2"        Colspan="2"        Colspan="2"        Colspan="2"							
Color       green       Score       2 pieces         Shape       OVAL (Flat beveled capsule shaped)       Size       11mm         Flavor       Imprint Code       2;1;2;WARFARIN;TARO         Contains       Marketing Start       Marketing End Date         Packaging       Product       Package Description       Marketing Start       Marketing End Date         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination 4029-1       07/15/1999       07/15/1999       07/15/1999         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination 4029-1       07/15/1999       06/10/2025         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination 4029-1       07/15/1999       06/10/2025         NDC:51672-       10 in 1 CARTON 4029-0       07/15/1999       06/10/2025         NDC:51672-       10 in 1 LISTER PACK; Type 0: Not a Combination Product       07/15/1999       06/10/2025         NDC:51672-       10 in 1 LISTER PACK; Type 0: Not a Combination Product       07/15/1999       06/10/2025         Marketing       Application Number or Monograph Citation       07/15/1999       06/10/2025         VARFARIN SODIU M Varfarin sodium tablet       NDC:51672-4030       07/15/1999       NDC:51672-4030	or       green       Score       2 pieces         hape       OVAL (Flat beveled capsule shaped)       Size       11mm         avor       Imprint Code       2;1;2;VWARFARIN;TARO         ontains       Product       Product       Marketing Start       Marketing End Date         NDC:51672- 4029-1       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999        4         NDC:51672- 4029-7       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999        6         NDC:51672- 4029-7       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999        6         NDC:51672- 4029-7       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999        6         NDC:51672- 4029-7       5000 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       06/10/2025       06/10/2025         NDC:51672- 4029-0       Application Number or Monograph Citation       Marketing Start Date       Marketing Start       Marketing End Date         NDA       Application Number or Monograph Citation       Marketing Start       Marketing End Date       Marketing End         NDA       AndA040301       O7/15/1999       Marketing Start       Marketing End       Marketing End          Marketing End	FD&C BLUE N	O. 2ALOMINOM I					
Color       green       Score       2 pieces         Shape       OVAL (Flat beveled capsule shaped)       Size       11mm         Flavor       Imprint Code       2;1;2;WARFARIN;TARO         Contains       Marketing Start       Marketing End Date         Packaging       Product       Package Description       Marketing Start       Marketing End Date         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination 4029-1       07/15/1999       07/15/1999       07/15/1999         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination 4029-1       07/15/1999       06/10/2025         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination 4029-1       07/15/1999       06/10/2025         NDC:51672-       10 in 1 CARTON 4029-0       07/15/1999       06/10/2025         NDC:51672-       10 in 1 LISTER PACK; Type 0: Not a Combination Product       07/15/1999       06/10/2025         NDC:51672-       10 in 1 LISTER PACK; Type 0: Not a Combination Product       07/15/1999       06/10/2025         Marketing       Application Number or Monograph Citation       07/15/1999       06/10/2025         VARFARIN SODIU M Varfarin sodium tablet       NDC:51672-4030       07/15/1999       NDC:51672-4030	or       green       Score       2 pieces         hape       OVAL (Flat beveled capsule shaped)       Size       11mm         avor       Imprint Code       2;1;2;VWARFARIN;TARO         ontains       Marketing Start       Marketing Start       Marketing End Date         DC:S1672- 4029-1       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       Imprint Code       Marketing End Date         NDC:S1672- 4029-7       1000 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       Imprint Code       Marketing End Date         NDC:S1672- 4029-7       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       Imprint Code       Marketing End Date         NDC:S1672- 4029-7       100 in 1 CARTON       07/15/1999       Imprint Code       Marketing End Date         NDC:S1672- 4029-0       10 in 1 LARTON       07/15/1999       Imprint Code       Marketing End Date         NDC:S1672- 4029-0       AnDa040301       Ot a Combination Product       Marketing Start       Marketing End Date         Marketing category       Application Number or Monograph Citation       Marketing Start       Marketing End Date         Marketing category       AnDa040301       O7/15/1999       Marketing Start       Marketing End Date          Marketing Start							
Color       green       Score       2 pieces         Shape       OVAL (Flat beveled capsule shaped)       Size       11mm         Flavor       Imprint Code       2;1;2;WARFARIN;TARO         Contains       Marketing Start       Marketing End Date         Packaging       Product       Package Description       Marketing Start       Marketing End Date         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination 4029-1       07/15/1999       07/15/1999       07/15/1999         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination 4029-1       07/15/1999       06/10/2025         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination 4029-1       07/15/1999       06/10/2025         NDC:51672-       10 in 1 CARTON 4029-0       07/15/1999       06/10/2025         NDC:51672-       10 in 1 LISTER PACK; Type 0: Not a Combination Product       07/15/1999       06/10/2025         NDC:51672-       10 in 1 LISTER PACK; Type 0: Not a Combination Product       07/15/1999       06/10/2025         Marketing       Application Number or Monograph Citation       07/15/1999       06/10/2025         VARFARIN SODIU M Varfarin sodium tablet       NDC:51672-4030       07/15/1999       NDC:51672-4030	or       green       Score       2 pieces         hape       OVAL (Flat beveled capsule shaped)       Size       11mm         avor       Imprint Code       2;1;2;VWARFARIN;TARO         ontains       Marketing Start       Marketing Start       Marketing End Date         NDC:S1672- 4029-1       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       Imprint Code       Marketing End Date         NDC:S1672- 4029-7       1000 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       Imprint Code       Marketing End Date         NDC:S1672- 4029-7       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       Imprint Code       Marketing End Date         NDC:S1672- 4029-7       2000 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       Imprint Code       Marketing End Date         NDC:S1672- 4029-0       10 in 1 CARTON       07/15/1999       Imprint Code       Marketing End Date         NDC:S1672- 4029-0       AnDa040301       Or/15/1999       Marketing Start       Marketing End Date         Marketing category       Application Number or Monograph Citation       Marketing Start       Marketing End Date         Marketing tend       AnDa040301       Marketing Start       Marketing End Date       Marketing End Date         Marketing tend <t< td=""><td>Product Ch</td><td>aracteristics</td><td></td><td></td><td></td><td></td><td></td></t<>	Product Ch	aracteristics					
Shape       OVAL (Flat beveled capsule shaped)       Size       11mm         Flavor       Imprint Code       2:1:2;WARFARIN;TARO         Contains       Imprint Code       2:1:2;WARFARIN;TARO         Packaging       Imprint Code       2:1:2;WARFARIN;TARO         Packaging       Imprint Code       2:1:2;WARFARIN;TARO         Packaging       Imprint Code       Marketing End Date         MDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       Imprint Code         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       Imprint Code         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       Imprint Code         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       Imprint Code         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       Imprint Code         NDC:51672-       10 in 1 LISTER PACK; Type 0: Not a Combination       07/15/1999       Imprint Code         NDC:51672-       10 in 1 BUTTLE; Type 0: Not a Combination       07/15/1999       Imprint Code         NDC:51672-       10 in 1 BUTLE; Type 0: Not a Combination       07/15/1999       Imprint Code         NDA       Application Number or Monograph       Marketing End Date <t< td=""><td>hape       OVAL (Flat beveled capsule shaped)       Size       11mm         avor       Imprint Code       2;1;2;VWRFARIN;TARO         ontains       V       V       2;1;2;VWRFARIN;TARO         avor       V       V       V       V         avor       V       V       V       V       V         avor       V       V       V       V       V       V         avor       V       V       V       V       V       V       V         avor       V&lt;</td><td>Color</td><td></td><td></td><td>Sco</td><td>re</td><td>2 pieces</td><td></td></t<>	hape       OVAL (Flat beveled capsule shaped)       Size       11mm         avor       Imprint Code       2;1;2;VWRFARIN;TARO         ontains       V       V       2;1;2;VWRFARIN;TARO         avor       V       V       V       V         avor       V       V       V       V       V         avor       V       V       V       V       V       V         avor       V       V       V       V       V       V       V         avor       V<	Color			Sco	re	2 pieces	
Instruction       Imprint Code       2:1:2:WARFARIN;TARO         Contains       Imprint Code       2:1:2:WARFARIN;TARO         Packaging       Marketing Start       Marketing End Date         MDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       Imprint Code       Marketing End Date         MDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       Imprint Code       Marketing End Date         MDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       Imprint Code       Marketing End Date         MDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       Imprint Code       Imprint Code         MDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       Imprint Code       Imprint Code         MDC:51672-       10 in 1 CARTON       07/15/1999       Imprint Code       Imprint Code       Imprint Code         Marketing Category       Application Number or Monograph Citation       Marketing Start       Marketing End Date         Marketing Category       AnDA040301       07/15/1999       Imprint Code       Marketing Category       Marketing End Date         Marketing Solium tablet       Marketing Category       Marketing Category       Marketing Category       Marketi	avor avor avor avians begin{tabular}{ c c c c c }     Ind in solution in solutin solut			l capsule shaped)				
Contains       Marketing Start       Marketing End Date         Packaging       Marketing Start       Marketing End Date         A DC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999         A DC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999         A DC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999         A DC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       06/10/2025         A DC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       06/10/2025         A DC:51672-       10 in 1 CARTON       07/15/1999       06/10/2025         A DC:51672-       10 in 1 CARTON       07/15/1999       06/10/2025         A DC:51672-       10 in 1 BLISTER PACK; Type 0: Not a Combination       07/15/1999       06/10/2025         A DC:51672-       10 in 1 BLISTER PACK; Type 0: Not a Combination       07/15/1999       06/10/2025         Marketing       Application Number or Monograph Category       Marketing Start Date       Marketing End Date         NDA       ANDA040301       07/15/1999       Marketing Start       Marketing End Date         VARFARIN SODIUM       ANDA04040301       07/15/1999       MDC:51672-4030         Product Type       HUMAN PRESCRIPTION DRUG	Ackaging       Marketing Start       Marketing End Date         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       07/15/1999         NDC:51672-       1000 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       07/15/1999         NDC:51672-       5000 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       06/10/2025         NDC:51672-       10 in 1 CARTON       07/15/1999       06/10/2025         NDC:51672-       10 in 1 CARTON       07/15/1999       06/10/2025         NDC:51672-       10 in 1 BLISTER PACK; Type 0: Not a Combination Product       07/15/1999       06/10/2025         NDC:51672-       10 in 1 CARTON       07/15/1999       06/10/2025       0         NDC:51672-       10 in 1 BLISTER PACK; Type 0: Not a Combination Product       07/15/1999       06/10/2025         NDC:51672-       10 in 1 ADLOT       07/15/1999       06/10/2025       0         NDA       Application Number or Monograph Citation       Marketing Start Date       Marketing End Date         NDA       ANDA040301       07/15/1999       07/15/1999       0         NDA       ANDA040301       07/15/1999       0       0         Andata       NDC:51672-4020       0       0       0	Flavor				-	2;1;2;W	ARFARIN;TARO
#       Item Code       Package Description       Marketing Start Date       Marketing End Date         1       NDC:51672- 4029-3       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       07/15/1999         2       NDC:51672- 4029-3       1000 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       06/10/2025         3       NDC:51672- 4029-0       10 in 1 CARTON       07/15/1999       06/10/2025         4       NDC:51672- 4029-0       10 in 1 LISTER PACK; Type 0: Not a Combination Product       07/15/1999       06/10/2025         4       NDC:51672- 4029-0       10 in 1 BLISTER PACK; Type 0: Not a Combination Product       07/15/1999       06/10/2025         4       Application Number or Monograph Category       Marketing Start Date       Marketing End Date         NNDA       Application Number or Monograph Category       Marketing End Date       Note         NNDA       ANDA040301       07/15/1999       07/15/1999         VARFFARIN SODIUM varfarin sodium tablet       NDC:51672-4030       NDC:51672-4030         Product Type       HUMAN PRESCRIPTION DRUG       Item Code (Source)       NDC:51672-4030	Item CodePackage DescriptionMarketing Start DateMarketing End DateNDC:51672- 4029-1100 in 1 BOTTLE; Type 0: Not a Combination Product07/15/1999	Contains						, -
#       Item Code       Package Description       Marketing Start Date       Marketing End Date         1       NDC:51672- 4029-3       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       07/15/1999         2       NDC:51672- 4029-3       1000 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       06/10/2025         3       NDC:51672- 4029-0       10 in 1 CARTON       07/15/1999       06/10/2025         4       NDC:51672- 4029-0       10 in 1 LISTER PACK; Type 0: Not a Combination Product       07/15/1999       06/10/2025         4       NDC:51672- 4029-0       10 in 1 BLISTER PACK; Type 0: Not a Combination Product       07/15/1999       06/10/2025         4       Application Number or Monograph Category       Marketing Start Date       Marketing End Date         NNDA       Application Number or Monograph Category       Marketing End Date       Note         NNDA       ANDA040301       07/15/1999       07/15/1999         VARFFARIN SODIUM varfarin sodium tablet       NDC:51672-4030       NDC:51672-4030         Product Type       HUMAN PRESCRIPTION DRUG       Item Code (Source)       NDC:51672-4030	Item CodePackage DescriptionMarketing Start DateMarketing End DateNDC:51672- 4029-1100 in 1 BOTTLE; Type 0: Not a Combination Product07/15/1999							
#       Item Code       Package Description       Marketing Start Date       Marketing End Date         1       NDC:51672- 4029-3       100 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       07/15/1999         2       NDC:51672- 4029-3       1000 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       06/10/2025         3       NDC:51672- 4029-0       10 in 1 CARTON       07/15/1999       06/10/2025         4       NDC:51672- 4029-0       10 in 1 LISTER PACK; Type 0: Not a Combination Product       07/15/1999       06/10/2025         4       NDC:51672- 4029-0       10 in 1 BLISTER PACK; Type 0: Not a Combination Product       07/15/1999       06/10/2025         4       Application Number or Monograph Category       Marketing Start Date       Marketing End Date         NNDA       Application Number or Monograph Category       Marketing End Date       Note         NNDA       ANDA040301       07/15/1999       07/15/1999         VARFFARIN SODIUM varfarin sodium tablet       NDC:51672-4030       NDC:51672-4030         Product Type       HUMAN PRESCRIPTION DRUG       Item Code (Source)       NDC:51672-4030	Item CodePackage DescriptionMarketing Start DateMarketing End DateNDC:51672- 4029-1100 in 1 BOTTLE; Type 0: Not a Combination Product07/15/1999							
Item Code       Package Description       Date       Date         NDC:51672-       100 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       07/15/1999         NDC:51672-       1000 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       07/15/1999         NDC:51672-       1000 in 1 BOTTLE; Type 0: Not a Combination       07/15/1999       06/10/2025         NDC:51672-       10 in 1 CARTON       07/15/1999       06/10/2025         NDC:51672-       10 in 1 CARTON       07/15/1999       06/10/2025         NDC:51672-       10 in 1 BLISTER PACK; Type 0: Not a Combination       07/15/1999       06/10/2025         NDC:51672-       10 in 1 BLISTER PACK; Type 0: Not a Combination       07/15/1999       06/10/2025         NDC:51672-       10 in 1 BLISTER PACK; Type 0: Not a Combination       07/15/1999       06/10/2025         Marketing       Application Number or Monograph       Marketing Start       Marketing End Date         NDA       ANDA040301       07/15/1999       07/15/1999         NNDA       ANDA040301       07/15/1999       07/15/1999         VARFARIN SODIUM       Variant Solium tablet       Variant Solium tablet       NDC:51672-4030         Product Type       HUMAN PRESCRIPTION DRUG       Item Code (Source)       NDC:51672-4030         Ro	Refin CodePackage DescriptionDateDateNDC:51672- 4029-1100 in 1 BOTTLE; Type 0: Not a Combination Product07/15/199907/15/1999NDC:51672- 4029-7100 in 1 BOTTLE; Type 0: Not a Combination Product07/15/199906/10/2025NDC:51672- 4029-75000 in 1 BOTTLE; Type 0: Not a Combination Product07/15/199906/10/2025NDC:51672- 4029-710 in 1 CARTON07/15/199906/10/2025NDC:51672- 4029-710 in 1 CARTON07/15/199906/10/2025NDC:51672- 4029-710 in 1 BLISTER PACK; Type 0: Not a Combination Product07/15/199906/10/2025NDC:51672- 4029-710 in 1 BLISTER PACK; Type 0: Not a Combination Product07/15/199906/10/2025NDC:51672- 4029-710 in 1 BLISTER PACK; Type 0: Not a Combination Product07/15/199906/10/2025NDC:51672- 4029-710 in 1 BLISTER PACK; Type 0: Not a Combination Product07/15/199906/10/2025NDC:51672- 4029-710 in 1 BLISTER PACK; Type 0: Not a Combination Product07/15/199906/10/2025NDC:51672- 4029-7Application Number or Monograph CitationMarketing Start DateMarketing End DateNDAANDA04030107/15/199907/15/199907/15/1999NDAANDA040301O7/15/199907/15/1999NDAANDA040301VOTISINAVOTISINAArfarin sodium tabletVOTISINAVOTISINAArduct InformationHUMAN PRESCRIPTION DRUGItem Code (Source)NDC:S1672-4030 <td>Packaging</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Packaging						
NDC:51672- 4029-1     100 in 1 BOTTLE; Type 0: Not a Combination Product     07/15/1999       NDC:51672- 4029-3     100 in 1 BOTTLE; Type 0: Not a Combination Product     07/15/1999       NDC:51672- 4029-7     100 in 1 BOTTLE; Type 0: Not a Combination Product     07/15/1999       NDC:51672- 4029-7     10 in 1 CARTON     07/15/1999       NDC:51672- 4029-0     10 in 1 CARTON     07/15/1999       NDC:51672- 4029-0     10 in 1 BLISTER PACK; Type 0: Not a Combination Product     07/15/1999       Marketing Information Citation     Marketing Start Date     Marketing End Date       Marketing start Citation     07/15/1999       NDC     ANDA040301     07/15/1999	NDC:51672- 029-1         Or in 1 BOTTLE; Type 0: Not a Combination Product         O7/15/1999         Image: Composition of the table of tabl		la Da	skage Description		Marketing S	tart	Marketing End
4 029-1       Product       07/15/1999         2 NDC:S1672- 4029-3       1000 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999         3 NDC:S1672- 4029-7       10 in 1 CARTON       07/15/1999         4 NDC:S1672- 4029-0       10 in 1 CARTON       07/15/1999         Marketing Category       10 in 1 BLISTER PACK; Type 0: Not a Combination Product       07/15/1999         Marketing Category       Application Number or Monograph Citation       Marketing Start Date       Marketing End Date         NDCA       ANDA040301       07/15/1999       07/15/1999         VARFARIN SODIUM varfarin sodium tablet       HUMAN PRESCRIPTION DRUG ORAL       Item Code (Source)       NDC:51672-4030	4029-1     Product     07/15/1999       NDC:51672- 4029-3     1000 in 1 BOTTLE; Type 0: Not a Combination Product     07/15/1999       NDC:51672- 4029-0     10 in 1 CARTON     07/15/1999       NDC:51672- 4029-0     Application Number or Monograph Citation     Marketing Start Date     Marketing End Date       NDA     ANDA040301     07/15/1999     07/15/1999       Variation Number or Monograph Citation       NDA     ANDA040301     07/15/1999	# item Cod	ie Pa	ckage Description				Date
4029-3       Product       0/1/1/1/1999       0/1/1/1999         NDC:51672- 4029-7       5000 in 1 BOTTLE; Type 0: Not a Combination Product       07/15/1999       06/10/2025         NDC:51672- 4029-0       10 in 1 CARTON       07/15/1999       06/10/2025         NDC:51672- 4029-0       Application Number or Monograph Citation       Marketing Start Date       Marketing End Date         NDA       ANDA040301       07/15/1999       07/15/1999         NDA       ANDA040301       07/15/1999         VARFARIN SODIUM varfarin sodium tablet       VARFARIN SODIUM         Product Information       HUMAN PRESCRIPTION DRUG       Item Code (Source)       NDC:51672-4030         Route of Administration       ORAL       ORAL       NDC:51672-4030	4029-3     Product     07/15/1999     Image: Constraint of the second		Product			07/15/1999		
4029-7       Product       07/15/1999       06/10/2025         NDC:51672- 4029-0       10 in 1 CARTON       07/15/1999       06/10/2025         10 in 1 BLISTER PACK; Type 0: Not a Combination Product       Marketing Start       Marketing End Date         Marketing Category       Application Number or Monograph Citation       Marketing Start Date       Marketing End Date         NDDA       ANDA040301       07/15/1999       07/15/1999         VARFARIN SODIUM varfarin sodium tablet       HUMAN PRESCRIPTION DRUG       Item Code (Source)       NDC:51672-4030	4029-7       Product       07/15/1999       06/10/2025         NDC:51672- 4029-0       10 in 1 CARTON       07/15/1999       06/10/2025         10 in 1 BLISTER PACK; Type 0: Not a Combination Product       07/15/1999       06/10/2025         Marketing Category         Marketing Category       Application Number or Monograph Citation       Marketing Start Date       Marketing End Date         NDA       ANDA040301       07/15/1999       07/15/1999         VARFARIN SODIUM         Arroduct Information         VARFARIN SODIUM         Item Code (Source)         MOX         Marketing Start         Marketing Start         Marketing Start         OTIS/1999         VARFARIN SODIUM         Marketing Start         Marketing Start         Product Information         Product Information         Product Type         HUMAN PRESCRIPTION DRUG         Marketing Category         Product Information		Product			07/15/1999		
4029-0       10 in 11 CANON       00/13/1999       00/10/2023         4       10 in 1 BLISTER PACK; Type 0: Not a Combination Product       Image: Comparison of the comparison of t	4029-0       10 IN T CARTON       07/13/1999       06/10/2023         10 IN 1 BLISTER PACK; Type 0: Not a Combination Product       10 In 1 BLISTER PACK; Type 0: Not a Combination Product       Image: Comparison of the text of text	<b>4</b> 029-7						
Product       Product       Marketing Category       Application Number or Monograph Citation       Marketing Start Date       Marketing End Date         NNDA       ANDA040301       07/15/1999       07/15/1999         VARFARIN SODIUM         VARFARIN SODIUM         Junda       Marketing End Date         Product Information         Product Information         ORAL	Product       Product       Image: Constraint of the second of th					07/15/1999	0	6/10/2025
Marketing Category       Application Number or Monograph Citation       Marketing Start Date       Marketing End Date         ANDA       ANDA040301       07/15/1999       07/15/1999         VARFARIN SODIUM varfarin sodium tablet       Varfarin sodium tablet       NDA         Product Information Product Type       HUMAN PRESCRIPTION DRUG       Item Code (Source)       NDC:51672-4030         Route of Administration       ORAL       ORAL       Item Code (Source)       NDC:51672-4030	Marketing Category       Application Number or Monograph Citation       Marketing Start Date       Marketing End Date         NDA       ANDA040301       07/15/1999       07/15/1999         VARFARIN SODIUM arfarin sodium tablet       Vareau Start Start Start Star	4		R PACK; Type 0: Not a Combina	tion			
Marketing Category       Application Number or Monograph Citation       Marketing Start Date       Marketing End Date         ANDA       ANDA040301       07/15/1999       07/15/1999         VARFARIN SODIUM varfarin sodium tablet       Varfarin sodium tablet       NDA         Product Information Product Type       HUMAN PRESCRIPTION DRUG       Item Code (Source)       NDC:51672-4030         Route of Administration       ORAL       ORAL       Item Code (Source)       NDC:51672-4030	Marketing Category       Application Number or Monograph Citation       Marketing Start Date       Marketing End Date         NDA       ANDA040301       07/15/1999       07/15/1999         VARFARIN SODIUM arfarin sodium tablet       Vareau Start Start Start Star							
Category       Citation       Date       Date         NNDA       ANDA040301       07/15/1999       07/15/1999         VARFARIN SUBJUM       Variation       Variation       Variation         Product Information       HUMAN PRESCRIPTION DRUG       Item Code (Source)       NDC:51672-4030         Route of Administration       ORAL       ORAL       Item Code (Source)       NDC:51672-4030	Category     Citation     Date     Date       NDA     ANDA040301     07/15/1999     Image: Constant of the second of t	Marketin	ig Informat	ion				
WARFARIN SODIUM         varfarin sodium tablet         Product Information         Product Type       HUMAN PRESCRIPTION DRUG         Route of Administration       ORAL	VARFARIN SODIUM         arfarin sodium tablet         Product Information         roduct Type         HUMAN PRESCRIPTION DRUG         Item Code (Source)         NDC:51672-4030				oh		tart	
Product Information         Product Type       HUMAN PRESCRIPTION DRUG       Item Code (Source)       NDC:51672-4030         Route of Administration       ORAL       ORAL       NDC:51672-4030	arfarin sodium tablet         product Information         roduct Type       HUMAN PRESCRIPTION DRUG       Item Code (Source)       NDC:51672-4030	ANDA	ANDA04030	1		07/15/1999		
Product Information         Product Type       HUMAN PRESCRIPTION DRUG       Item Code (Source)       NDC:51672-4030         Route of Administration       ORAL       ORAL       NDC:51672-4030	arfarin sodium tablet         product Information         roduct Type         HUMAN PRESCRIPTION DRUG         Item Code (Source)         NDC:51672-4030							
Product Information         Product Type       HUMAN PRESCRIPTION DRUG       Item Code (Source)       NDC:51672-4030         Route of Administration       ORAL       ORAL       NDC:51672-4030	arfarin sodium tablet         product Information         roduct Type         HUMAN PRESCRIPTION DRUG         Item Code (Source)         NDC:51672-4030							
Product Information       HUMAN PRESCRIPTION DRUG       Item Code (Source)       NDC:51672-4030         Route of Administration       ORAL       ORAL       ORAL       ORAL	Product Information       HUMAN PRESCRIPTION DRUG       Item Code (Source)       NDC:51672-4030	WARFAR	IN SODIUM					
Product Type       HUMAN PRESCRIPTION DRUG       Item Code (Source)       NDC:51672-4030         Route of Administration       ORAL	roduct Type HUMAN PRESCRIPTION DRUG Item Code (Source) NDC:51672-4030	warfarin sodiu	ım tablet					
Product Type       HUMAN PRESCRIPTION DRUG       Item Code (Source)       NDC:51672-4030         Route of Administration       ORAL	roduct Type HUMAN PRESCRIPTION DRUG Item Code (Source) NDC:51672-4030							
Route of Administration ORAL		Product In	formation					
Route of Administration ORAL		Product Typ	e	HUMAN PRESCRIPTION DRUG	ľ	tem Code (Sou	irce)	NDC:51672-4030
				OBAL				
Activo Ingradiant/Activo Majaty		Noule of Adi						
Active Ingradient/Active Majoty								
	ative Ingredient/Active Meiche			Maiatu				

Ingredient Name	<b>Basis of Strength</b>	Strength
WARFARIN SODIUM (UNII: 6153CWM0CL) (WARFARIN - UNII:5Q7ZVV76EI)	WARFARIN SODIUM	3 mg
Inactive Ingredients		
Ingredient Name		Strength
ANHYDROUS LACTOSE (UNII: 3SY5LH9PMK)		
STARCH, CORN (UNII: 08232NY3SJ)		
MAGNESIUM STEARATE (UNII: 70097M6I30)		
FD&C RED NO. 40 (UNII: WZB9127XOA)		
D&C YELLOW NO. 10 ALUMINUM LAKE (UNII: CQ3XH3DET6)		

FD&C BLUE NO. 2--ALUMINUM LAKE (UNII: 4AQJ3LG584)

ALUMINUM OXIDE (UNII: LMI26O6933)

#### **Product Characteristics**

Color	brown (Tan)	Score	2 pieces
Shape	OVAL (Flat beveled capsule shaped)	Size	11mm
Flavor		Imprint Code	3;WARFARIN;TARO
Contains			

#### Packaging

#	ltem Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:51672- 4030-1	100 in 1 BOTTLE; Type 0: Not a Combination Product	07/15/1999	
2	NDC:51672- 4030-3	1000 in 1 BOTTLE; Type 0: Not a Combination Product	07/15/1999	
3	NDC:51672- 4030-7	5000 in 1 BOTTLE; Type 0: Not a Combination Product	07/15/1999	
4	NDC:51672- 4030-0	10 in 1 CARTON	07/15/1999	06/10/2025
4		10 in 1 BLISTER PACK; Type 0: Not a Combination Product		
M	larketing	Information		

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA040301	07/15/1999	
		,,	

## WARFARIN SODIUM

warfarin sodium tablet

## Product Information

Product Type	HUMAN PRESCRIPTION DRUG	ltem Code (Source)	NDC:51672-4031
Route of Administration	ORAL		

	ctive Ingred	lient/Active Moiety				
		Ingredient Name		Basis of S	Strength	Strengt
w	ARFARIN SODIU	JM (UNII: 6153CWM0CL) (WARFARIN - UNII:5Q7Z√√	/76EI)	WARFARIN SC	DIUM	4 mg
Ir	nactive Ingr	edients				
		Ingredient Name			S	trength
AM	NHYDROUS LAC	TOSE (UNII: 3SY5LH9PMK)				
		JNII: 08232NY3SJ)				
		ARATE (UNII: 70097M6I30)				
FC	S&C BLUE NO.	1 ALUMINUM LAKE (UNII: J9EQA3S2JM)				
P	roduct Char	acteristics				
Co	blor b	lue	Score		2 pieces	
SI	hape O	VAL (Flat beveled capsule shaped)	Size		11mm	
Fl	avor		Imprint	Code	4; warfarin	;TARO
С	ontains					
P	ackaging				Marke	eting End
		Package Description	Mark	eting Start Date		Date
<b>P</b> #		Package Description 100 in 1 BOTTLE; Type 0: Not a Combination Product	<b>Mark</b> 07/15/1	Date		Date
#	Item Code	100 in 1 BOTTLE; Type 0: Not a Combination		<b>Date</b> 999		Date
# 1	Item Code NDC:51672- 4031-1 NDC:51672-	100 in 1 BOTTLE; Type 0: Not a Combination Product 1000 in 1 BOTTLE; Type 0: Not a Combination	07/15/1	<b>Date</b> 999 999		Date
# 1 2	Item Code NDC:51672- 4031-1 NDC:51672- 4031-3 NDC:51672-	100 in 1 BOTTLE; Type 0: Not a Combination Product 1000 in 1 BOTTLE; Type 0: Not a Combination Product 5000 in 1 BOTTLE; Type 0: Not a Combination	07/15/1	<b>Date</b> 999 999 999		

## **Marketing Information**

Marketing	Application Number or Monograph	Marketing Start	Marketing End
Category	Citation	Date	Date
ANDA	ANDA040301	07/15/1999	

WARFARIN SODIUM warfarin sodium tablet			
Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:51672-4032

	ute of Admin	istration	ORAL				
Ac	tive Ingred	ient/Active	Moiety				
		Ingre	edient Name		Basis of S	Strength	Strengt
w,	ARFARIN SODIL	<b>JM</b> (UNII: 6153C	WMOCL) (WARFARIN - UNII:5Q7ZVV76	SEI)	WARFARIN SO	DIUM	5 mg
In	active Ingro	edients					
			Ingredient Name			S	Strength
	HYDROUS LAC						
	ARCH, CORN (U		•				
	GNESIUM STE						
			JNII: K4XZD9W99K)				
D&	C YELLOW NO	. 10 ALUMINU	M LAKE (UNII: CQ3XH3DET6)				
Pr	oduct Char	acteristics					
		range (Peach)		Score		2 pieces	
Sh		-	d capsule shaped)	Size		11mm	
			· · · · · · · · · · · · · · · · · · ·				
	-			Imprint C	Code	5:WARFARIN	:TARO
Fla	ivor ntains			Imprint C	Code	5;WARFARIN	;TARO
Fla Co	ntains			Imprint C	Code	5;WARFARIN	;TARO
Fla Co Pa	vor	Pa	nckage Description	Marke	ode eting Start Date	Marke	;TARO eting End Date
Fla Co Pa #	ntains ackaging			Marke	eting Start Date	Marke	eting End
Fla Co Pa # 1	Ackaging Item Code NDC:51672-	100 in 1 BOTT Product 1000 in 1 BOT Product	Ackage Description LE; Type 0: Not a Combination TLE; Type 0: Not a Combination	Marke	eting Start Date 99	Marke	eting End
Fla Co Pa # 1 2 3	Nor         Image: Constant set of the set of	100 in 1 BOTT Product 1000 in 1 BOT Product	<b>Ackage Description</b> LE; Type 0: Not a Combination	<b>Marke</b> 07/15/19	eting Start Date 99 99	Marke	eting End
Fla Co Pa # 1 2 3	Nor           ntains           ackaging           Item Code           NDC:51672- 4032-1           NDC:51672- 4032-3           NDC:51672- 4032-3	100 in 1 BOTT Product 1000 in 1 BOT Product 5000 in 1 BOT Product 10 in 1 CARTO	Ackage Description LE; Type 0: Not a Combination TLE; Type 0: Not a Combination TLE; Type 0: Not a Combination	Marke 07/15/19 07/15/19 07/15/19 07/15/19	eting Start Date 99 99 99	Marke	eting End Date
Fla Co Pa # 1 2 3	Nor           ntains           ackaging           Item Code           NDC:51672-           4032-1           NDC:51672-           4032-3           NDC:51672-           NDC:51672-           4032-7           NDC:51672-	100 in 1 BOTT Product 1000 in 1 BOT Product 5000 in 1 BOT Product 10 in 1 CARTO	Ackage Description LE; Type 0: Not a Combination TLE; Type 0: Not a Combination TLE; Type 0: Not a Combination	Marke 07/15/19 07/15/19 07/15/19 07/15/19	eting Start Date 99 99 99	Marke	eting End Date
Fla Co Pa # 1 2 3 4	Nor           ntains           ackaging           Item Code           NDC:51672-           4032-1           NDC:51672-           4032-3           NDC:51672-           NDC:51672-           4032-7           NDC:51672-	100 in 1 BOTT Product 1000 in 1 BOT Product 5000 in 1 BOT Product 10 in 1 CARTO 10 in 1 BLISTE	Ackage Description LE; Type 0: Not a Combination TLE; Type 0: Not a Combination TLE; Type 0: Not a Combination	Marke 07/15/19 07/15/19 07/15/19 07/15/19	eting Start Date 99 99 99	Marke	eting End Date
Fla Co # 1 2 3 4 4	Nor           ntains           ackaging           Item Code           NDC:51672-           4032-1           NDC:51672-           4032-3           NDC:51672-           NDC:51672-           4032-7           NDC:51672-	100 in 1 BOTT Product 1000 in 1 BOT Product 5000 in 1 BOT Product 10 in 1 CARTO 10 in 1 BLISTE Product	Ackage Description LE; Type 0: Not a Combination TLE; Type 0: Not a Combination TLE; Type 0: Not a Combination N R PACK; Type 0: Not a Combination	Marke 07/15/19 07/15/19 07/15/19 07/15/19	eting Start Date 99 99 99	Marke	eting End Date
Fla Co Pa 4 1 2 3 4 4	Nvor         ntains         ackaging         Item Code         NDC:51672-         4032-1         NDC:51672-         4032-3         NDC:51672-         4032-7         NDC:51672-         4032-0	100 in 1 BOTT Product 1000 in 1 BOT Product 5000 in 1 BOT Product 10 in 1 CARTO 10 in 1 BLISTE Product	Ackage Description LE; Type 0: Not a Combination TLE; Type 0: Not a Combination TLE; Type 0: Not a Combination N R PACK; Type 0: Not a Combination	Marke 07/15/19 07/15/19 07/15/19	eting Start Date 99 99 99	Marke 06/10/20	eting End Date
Fla Co Pa # 1 2 3 4 4	Ackaging Item Code Item Code NDC:51672- 4032-1 NDC:51672- 4032-7 NDC:51672- 4032-7 NDC:51672- 4032-0	100 in 1 BOTT Product 1000 in 1 BOT Product 5000 in 1 BOT Product 10 in 1 CARTO 10 in 1 BLISTE Product	Ackage Description LE; Type 0: Not a Combination TLE; Type 0: Not a Combination TLE; Type 0: Not a Combination N R PACK; Type 0: Not a Combination Sion tion Number or Monograph Citation	Marke 07/15/19 07/15/19 07/15/19	eting Start Date 99 99 99 99 99 99 99	Marke 06/10/20	eting End Date 25 eting End

## WARFARIN SODIUM

warfarin sodium tablet

**Product Information** 

	oduct Type		HUMAN PRESCRIPTION DRUG	Item Coo	de (Source	) NDC:5	1672-4033
Ro	oute of Admi	nistration	ORAL				
_							
A	ctive Ingree	dient/Active	•				
		•	edient Name		Basis of S	-	Strengt
W	ARFARIN SODI	<b>UM</b> (UNII: 6153C	WMOCL) (WARFARIN - UNII:5Q7ZVV76	5EI)	WARFARIN SC	DIUM	6 mg
In	active Ingr	edients					
			Ingredient Name			9	Strength
AN	IHYDROUS LAC	TOSE (UNII: 35	/5LH9PMK)				
	· · ·	UNII: 08232NY39	••				
		ARATE (UNII: 70					
FD	&C BLUE NO.	2ALUMINUM	LAKE (UNII: 4AQJ3LG584)				
Pı	roduct Cha	racteristics					
Co	olor t	urquoise (Teal)		Score		2 pieces	
Sh	lape (	OVAL (Flat bevele	d capsule shaped)	Size		11mm	
	ape ( avor	OVAL (Flat bevele		Size Imprint C	ode	11mm 6;WARFARIN	;TARO
Fla	•	)VAL (Flat bevele			ode		;TARO
Fla	avor	OVAL (Flat bevele			ode		;TARO
Fla Co	avor ontains	OVAL (Flat bevele			ode		;TARO
Fla Co	avor	OVAL (Flat bevele		Imprint C		6;WARFARIN	
Fla Co	avor ontains			Imprint C	ode ting Start Date	6;WARFARIN	;TARO eting End Date
Fla Co Pa #	avor ontains ackaging	Pa		Imprint C	eting Start Date	6;WARFARIN	eting End
Fla Co Pa # 1	Avor Avor Ackaging Item Code NDC:51672- 4033-1 NDC:51672- 4033-3	Pa 100 in 1 BOTT Product 1000 in 1 BOT Product	<b>Ackage Description</b> LE; Type 0: Not a Combination TLE; Type 0: Not a Combination	Imprint C	e <b>ting Start</b> Date 99	6;WARFARIN	eting End
Fla Co <b>Pa</b> # 1 2 3	Avor Avor Ackaging Item Code NDC:51672- 4033-3 NDC:51672- 4033-7	Pa 100 in 1 BOTT Product 1000 in 1 BOT Product	Ackage Description LE; Type 0: Not a Combination	Marke	eting Start Date 99 99	6;WARFARIN	eting End
Fla Co <b>Pa</b> # 1 2 3	avor           antains           ackaging           Item Code           NDC:51672- 4033-1           NDC:51672- 4033-3           NDC:51672- 4033-3	Pa 100 in 1 BOTT Product 1000 in 1 BOT Product 5000 in 1 BOT Product 10 in 1 CARTO	Ackage Description LE; Type 0: Not a Combination TLE; Type 0: Not a Combination TLE; Type 0: Not a Combination	Marke 07/15/19 07/15/19 07/15/19	eting Start Date 99 99 99	6;WARFARIN	eting End Date
Fla Co Pa # 1 2 3	Avor Avor Avor Ackaging Item Code NDC:51672- 4033-1 NDC:51672- 4033-7 NDC:51672- 103-7 NDC:51672-	Pa 100 in 1 BOTT Product 1000 in 1 BOT Product 5000 in 1 BOT Product 10 in 1 CARTO	Ackage Description LE; Type 0: Not a Combination TLE; Type 0: Not a Combination TLE; Type 0: Not a Combination	Marke 07/15/19 07/15/19 07/15/19	eting Start Date 99 99 99	6;WARFARIN	eting End Date
Fla Co Pa # 1 2 3 4	Avor Avor Avor Ackaging Item Code NDC:51672- 4033-1 NDC:51672- 4033-7 NDC:51672- 103-7 NDC:51672-	Pa 100 in 1 BOTT Product 1000 in 1 BOT Product 5000 in 1 BOT Product 10 in 1 CARTO 10 in 1 BLISTE	Ackage Description LE; Type 0: Not a Combination TLE; Type 0: Not a Combination TLE; Type 0: Not a Combination	Marke 07/15/19 07/15/19 07/15/19	eting Start Date 99 99 99	6;WARFARIN	eting End Date
Fla Co Pa # 1 2 3 4 4	Avor Avor Ackaging Item Code NDC:51672- 4033-1 NDC:51672- 4033-7 NDC:51672- 4033-7 NDC:51672- 4033-0	Pa 100 in 1 BOTT Product 1000 in 1 BOT Product 5000 in 1 BOT Product 10 in 1 CARTO 10 in 1 BLISTE	Ackage Description LE; Type 0: Not a Combination TLE; Type 0: Not a Combination TLE; Type 0: Not a Combination N R PACK; Type 0: Not a Combination	Marke 07/15/19 07/15/19 07/15/19	eting Start Date 99 99 99	6;WARFARIN	eting End Date
Fla Co Pa # 1 2 3 4 4	Avor Avor Ackaging Item Code NDC:51672- 4033-1 NDC:51672- 4033-7 NDC:51672- 4033-7 NDC:51672- 4033-0	Pa 100 in 1 BOTT Product 1000 in 1 BOT Product 5000 in 1 BOT Product 10 in 1 CARTO 10 in 1 BLISTE Product Informat	Ackage Description LE; Type 0: Not a Combination TLE; Type 0: Not a Combination TLE; Type 0: Not a Combination N R PACK; Type 0: Not a Combination	Marka 07/15/19 07/15/19 07/15/19	eting Start Date 99 99 99	6;WARFARIN Marke 06/10/20	eting End Date

## WARFARIN SODIUM

warfarin sodium tablet

Product Type Route of Adn		HUMAN PRESCRIPTION DRUG	L.	tom Cod		NDC	
Route of Adn				tem cou	le (Source)	NDC:5	1672-4034
	ninistration	ORAL					
Active Inar	edient/Active	Moiety					
J		edient Name			Basis of Str	renath	Strength
WARFARIN SO		wmocl) (warfarin - Unii:5Q7z	ZVV76E	EI)	WARFARIN SODIL	-	7.5 mg
Inactive Ing	gredients						
		Ingredient Name				S	trength
	ACTOSE (UNII: 35)						
-	I (UNII: 08232NY3S	•					
	TEARATE (UNII: 70 No. 10 Aluminui	M LAKE (UNII: CQ3XH3DET6)					
		TERE (ONI. COSAISDETO)					
Product Ch	aracteristics						
Color	yellow		Sco	re	2 piece	es	
Shape	OVAL (Flat beveled	l capsule shaped)	Size	•	11mm		
Flavor			Imp	rint Cod	<b>e</b> 7;1;2;V	VARFARIN;	TARO
Contains							
Packaging							
# Item Cod	e Pa	ckage Description			ting Start Date		eting End Date
<b>1</b> NDC:51672- 4034-1	100 in 1 BOTT Product	LE; Type 0: Not a Combination		07/15/199			
<b>2</b> NDC:51672- 4034-3	1000 in 1 BOT Product	TLE; Type 0: Not a Combinatio	'n	07/15/199	99		
<b>3</b> NDC:51672- 4034-0	10 in 1 CARTO			07/15/199	99	06/10/202	25
3	10 in 1 BLISTE Product	R PACK; Type 0: Not a Combin	ation				
Marketin	g Informat	ion					
Markotin		tion Number or Monogra Citation	ph	Marke	eting Start Date		eting End Date
Marketin Category		Citation					

## WARFARIN SODIUM

warfarin sodium tablet

#### **Product Information**

Product Typ	e	HUM	AN PRESCRIPTION DRUG	Item Co	de (Source	e) NDC:5	1672-4035
Route of Ad	ministrat	ion ORA	L				
Active Ing	redient//	Active Moi	ety				
		Ingredier	nt Name		Basis of	Strength	Strength
WARFARIN SO	DDIUM (UNI	I: 6153CWM0C	L) (WARFARIN - UNII:5Q7ZVV	76EI)	WARFARIN S	ODIUM	10 mg
Inactive In	ngredien	ts					
		-	redient Name			Str	ength
			PMK)				
STARCH, COF MAGNESIUM		-	3120)				
MAGNESIOM	SIEARAIE	(01411. 7009714	(050)				
Product C	haracter	ristics					
Color	white			Score		2 pieces	
				50010		2 pieces	
Shape	OVAL (Fla	t beveled cap	sule shaped)	Size		11mm	
Flavor	OVAL (Fla	it beveled caps	ule shaped)			•	TARO
	OVAL (Fla	t beveled cap	sule shaped)	Size		11mm	TARO
Flavor	OVAL (Fla	t beveled caps	sule shaped)	Size		11mm	TARO
Flavor Contains		t beveled caps	sule shaped)	Size		11mm	TARO
Flavor Contains <b>Packagin</b> g				Size Imprint C	ode	11mm 10;WARFARIN;	
Flavor Contains <b>Packagin</b> g			ge Description	Size Imprint C		11mm 10;WARFARIN; t Marke	eting End Date
Flavor Contains <b>Packagin</b> g	de	Packag		Size Imprint C	ode eting Star Date	11mm 10;WARFARIN; t Marke	eting End
Flavor Contains Packaging # Item Co	de 100 in Produ	Packag 1 BOTTLE; Ty ct in 1 BOTTLE; T	ge Description	Size Imprint Co Marko	ode eting Star Date	11mm 10;WARFARIN; t Marke	eting End
Flavor Contains Packaging # Item Co 1 NDC:51672 4035-1 2 NDC:51672	de 100 in Production 1000 in Production	Packag 1 BOTTLE; Ty ct in 1 BOTTLE; T	ge Description pe 0: Not a Combination	Size Imprint Co Marko 07/15/19	ode eting Star Date 1999	11mm 10;WARFARIN; t Marke	eting End Date
Flavor Contains Packaging # Item Co 1 NDC:51672 4035-1 2 NDC:51672 4035-3 3 NDC:51672	de 100 in Production 1000 in Production 1000 in	Packag 1 BOTTLE; Ty ct in 1 BOTTLE; T ct 1 CARTON 1 BLISTER PAC	ge Description pe 0: Not a Combination	Size Imprint Ca Marka 07/15/19 07/15/19	ode eting Star Date 1999	11mm 10;WARFARIN; rt Marke	eting End Date
Contains Packaging # Item Co 1 NDC:51672 2 NDC:51672 3 NDC:51672	de 100 in Production 1000 in Production 100 in 100 in 100 in 100 in 1000  in 1000 in 10000 in 10000 in 1000 in 10000 i	Packag 1 BOTTLE; Ty ct in 1 BOTTLE; T ct 1 CARTON 1 BLISTER PAC	ge Description pe 0: Not a Combination ype 0: Not a Combination	Size Imprint Ca Marka 07/15/19 07/15/19	ode eting Star Date 1999	11mm 10;WARFARIN; rt Marke	eting End Date
Flavor Contains Packaging # Item Co 1 NDC:51672 4035-1 2 NDC:51672 4035-3 3 NDC:51672	de 100 in Product 1000 i Product 10 in 1 Product	Packag 1 BOTTLE; Ty ct in 1 BOTTLE; T ct 1 CARTON 1 BLISTER PAC ct	<b>ge Description</b> pe 0: Not a Combination ype 0: Not a Combination K; Type 0: Not a Combination	Size Imprint Ca Marka 07/15/19 07/15/19	ode eting Star Date 1999	11mm 10;WARFARIN; rt Marke	eting End Date

Labeler - Sun Pharmaceutical Industries, Inc. (146974886)

Establishment			
Name	Address	ID/FEI	Business Operations
Taro Pharmaceutical Industries Ltd.		600072078	manufacture(51672-4027, 51672-4028, 51672-4029, 51672-4030, 51672- 4031, 51672-4032, 51672-4033, 51672-4034, 51672-4035)