

## 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, 2½, 3, 4, 5, 6, 7½, or 10 mg (3)

### CONTRAINDICATIONS

- Pregnancy, except in women with mechanical heart valves (4, 5.7, 8.1)
- Hemorrhagic tendencies or blood dyscrasias (4)

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## FULL PRESCRIBING INFORMATION

### 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.
- 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).

- 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 anticoagulation 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)

### ADVERSE REACTIONS

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 or [www.fda.gov/medwatch](http://www.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)

### USE IN SPECIFIC POPULATIONS

- 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

- Antibiotics and Antifungals
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\* Sections or subsections omitted from the full prescribing information are not listed.

- 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, 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 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 low-dose 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, 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.

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 mg	0.5-2 mg	0.5-2 mg	0.5-2 mg

\*Ranges are derived from multiple published clinical studies. VKORC1 -1639G-A (rs923231) variant is used in this table. Other co-inherited 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 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 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

##### Warfarin Sodium Single-Scored Tablets, USP

Strength	Color	Engraved
1 mg	pink	1
2 mg	lavender	2
2.5 mg	green	2½
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

#### 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), fetal 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
- Treated abortion, eclampsia, and preeclampsia
- Unsupervised patients with conditions associated with potential high level of non-compliance
- 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 arteriopathy, 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 (HITS). 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), fetal 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
- Inefficiency 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. [see *Boxed Warning, Warnings and Precautions* (5.1), and *Overdosage* (10)]
- Polycythemia vera
- Vasculitis
- Diabetes mellitus

##### 5.9 Endogenous Factors Affecting INR

Warfarin sodium 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:

Half-life 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 non-controlled study of 151 Chinese outpatients stabilized on warfarin for various indications reported a mean daily warfarin requirement of 3.3 ± 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 multipeptide 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 a prospective, randomized, controlled clinical trials involving 3711 patients with non-rheumatic 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).

Table 4: Clinical Studies of Warfarin in Non-Rheumatic AF Patients\*

Study	N		Thromboembolism			% Major Bleeding		
	Warfarin-Treated Patients	Control Patients	PT Ratio	INR	% Risk Reduction	p-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

\*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<0.05). 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

Event	Patients Treated With		
	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	
	Warfarin	Placebo	Warfarin	Placebo
Thromboembolism	4.0/100 py	3.7/100 py	4.0/100 py	3.7/100 py
Major Bleeding	0.95/100 py	2.1/100 py	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.

Table 7: WARIS – Endpoint Analysis of Separate Events

Event	Warfarin (N=607)	Placebo (N=607)	RR (95% CI)	% Risk Reduction (p-value)
Total Patient Years of Follow-up	2018	1944		
Total Mortality	94 (4.7/100 py)	123 (6.3/100 py)	0.76 (0.60, 0.97)	24 (p=0.030)
Vascular Death	82 (4.1/100 py)	105 (5.4/100 py)	0.78 (0.60, 1.02)	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	20 (1.0/100 py)	44 (2.3/100 py)	0.46 (0.28, 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.

Table 8: WARIS II – Comparison of Events According to Treatment Group

Event	Aspirin (N=1206)	Warfarin (N=1216)	Aspirin plus Warfarin (N=1208)	Rate Ratio (95% CI)	p-value
	No. of Events				
Major Bleeding*	8	33	28	3.35 <sup>†</sup> (ND) 4.00 <sup>†</sup> (ND)	ND ND
Minor Bleeding*	39	103	133	3.21 <sup>†</sup> (ND) 2.55 <sup>†</sup> (ND)	ND ND
Composite Endpoints*	241	203	181	0.81 (0.69-0.95) <sup>‡</sup> 0.71 (0.60-0.83) <sup>‡</sup>	0.03 0.001
Reinfarction	117	90	69	0.56 (0.41-0.78) <sup>‡</sup> 0.74 (0.55-0.98) <sup>‡</sup>	<0.001 0.03
Thromboembolic Stroke	32	17	17	0.52 (0.28-0.98) <sup>‡</sup> 0.52 (0.28-0.97) <sup>‡</sup>	0.03 0.03
Death	92	96	95		0.82

\*Major bleeding episodes were defined as nonfatal cerebral hemorrhage or bleeding necessitating surgical intervention or blood transfusion.

<sup>†</sup>The rate ratio is for aspirin plus warfarin as compared with aspirin.

<sup>‡</sup>The rate ratio is for warfarin as compared with aspirin.

<sup>‡</sup>Minor bleeding episodes were defined as non-cerebral hemorrhage not necessitating surgical intervention or blood transfusion.

<sup>‡</sup>Includes death, nonfatal reinfarction, and thromboembolic cerebral stroke.

CI=confidence interval

ND=not determined

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, 2½, 3, 4, 5, 6, 7½, 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 10X10 blister packs
1 mg Pink	NDC 51672-4027-1	NDC 51672-4027-3	NDC 51672-4027-7	NDC 51672-4027-0
2 mg Lavender	NDC-51672-4028-1	NDC-51672-4028-3	NDC-51672-4028-7	NDC-51672-4028-0
2.5 mg Green	NDC 51672-4029-1	NDC 51672-4029-3	NDC 51672-4029-7	NDC 51672-4029-0
3 mg Tan	NDC 51672-4030-1	NDC 51672-4030-3	NDC 51672-4030-7	NDC 51672-4030-0
4 mg Blue	NDC 51672-4031-1	NDC 51672-4031-3	NDC 51672-4031-7	NDC 51672-4031-0
5 mg Peach	NDC 51672-4032-1	NDC 51672-4032-3	NDC 51672-4032-7	NDC 51672-4032-0
6 mg Teal	NDC 51672-4033-1	NDC 51672-4033-3	NDC 51672-4033-7	NDC 51672-4033-0
7.5 mg Yellow	NDC 51672-4034-1	NDC 51672-4034-3		NDC 51672-4034-0
10 mg White (dye free)	NDC 51672-4035-1	NDC 51672-4035-3		NDC 51672-4035-0

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

Dispense in a light, 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 in (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 appearance 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)].

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## 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
  - 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
  - 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
  - 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