Administration

· Administer orally.

**Therapeutic Use** 

• Prevention of venous

Drug Information Table
Anticoagulants – warfarin (Coumadin)

thrombosis, pulmonary embolism, during atrial fibrillation  • Prevention of thromboembolism in patients who have prosthetic heart valves  • Prevention of recurrent myocardial infarction and transient ischemic attacks	<ul> <li>Measure baseline vital signs and prothrombin time (PT), reported as an international normalized ratio (INR).</li> <li>Monitor INR; recommend reduced dosage for an INR above 2 to 3, depending on condition being treated, and an increased dosage for an INR below this range</li> <li>Monitor PT/INR daily initially and eventually every 2 to 4 weeks.</li> <li>Expect anticoagulant effects to take 8 to 12 hr, with the full therapeutic effect in 3 to 5 days.</li> <li>Increase PT monitoring for patients who take drugs that interact with warfarin.</li> <li>Tell patients to record the dosage, route, and time of warfarin administration on a daily basis.</li> <li>Make sure patients watch for and report signs of bleeding (bruising, gums bleeding, abdominal pain, nosebleeds, coffee-ground emesis, tarry stools).</li> <li>Tell them not to take over-the-counter NSAIDs, especially aspirin, or drugs containing salicylates.</li> <li>Advise them to use an electric razor for shaving and a soft toothbrush.</li> </ul>	
Side/Adverse Effects	Interventions	Patient Instructions
• Hemorrhage	<ul> <li>Monitor vital signs, checking for hypotension and tachycardia.</li> <li>Check hematocrit and blood counts.</li> <li>For warfarin overdose, stop the drug and administer vitamin K parenterally, usually IV.</li> </ul>	<ul> <li>Stop taking the drug for signs of hemorrhage.</li> <li>Report bruising, petechiae, hematomas, or black tarry stool immediately.</li> <li>Wear medical identification indicating warfarin use.</li> <li>Avoid excessive alcohol ingestion.</li> </ul>
Toxicity (overdose)	<ul> <li>Administer vitamin K to promote synthesis of coagulation factors VI, IX, X, and prothrombin.</li> <li>Administer IV vitamin K slowly and in a diluted solution to prevent serious reactions.</li> <li>Administer small doses of vitamin K (2.5 mg by mouth, 0.5 to 1 mg IV) to prevent development of resistance to warfarin.</li> <li>If vitamin K cannot control bleeding, administer fresh frozen plasma or whole blood.</li> </ul>	Report bleeding immediately.
Contraindications	Precautions	Interactions
<ul> <li>Pregnancy risk category X</li> <li>Vitamin K deficiency</li> <li>Thrombocytopenia</li> <li>Liver disease</li> <li>Alcoholism</li> <li>Uncontrollable bleeding</li> <li>During lumbar puncture, regional anesthesia, or surgery that involves the brain, eyes, or spinal cord</li> <li>Threatened spontaneous abortion</li> </ul>	Hemophilia     Increased capillary permeability     Dissecting aneurysm     Peptic ulcer disease     Severe hypertension     Severe hepatic or renal disease	<ul> <li>Heparin, aspirin, acetaminophen Tylenol), glucocorticoids, sulfonamides, and parenteral cephalosporins increase anticoagulation.</li> <li>Phenobarbital (Luminal), carbamazepine (Tegretol), phenytoin (Dilantin), oral contraceptives, and vitamin K decrease anticoagulation.</li> <li>Excessive intake of foods high in vitamin K, such as dark green leafy vegetables including cabbage, broccoli, and Brussels sprouts, mayonnaise, canola, and soybean oils decrease anticoagulation.</li> <li>Warfarin interacts with many other prescription and overthe counter drugs, foods, and herbals, so patients should check with their primary care provider and pharmacist to make sure no other interactions</li> </ul>

apply.