

SAMPLENAME

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WARFARIN

An anticoagulant that acts by inhibiting the synthesis of vitamin K-dependent coagulation factors. Warfarin is indicated for the prophylaxis and/or treatment of venous thrombosis and its extension, pulmonary embolism, and atrial fibrillation with embolization. It is also used as an adjunct in the prophylaxis of systemic embolism after myocardial infarction. Warfarin is also used as a rodenticide.

VKORC1

gene.geneDesc

Dosing Guideline

• *1/*1

Patients with the *1/*1 diplotype may require a higher dose of warfarin as compared to patients with the *2 or *3 CYP2C9 alleles. CYP2C9*1/*1 is considered a fully functional genotype. Other genetic and clinical factors may also influence a patient's required dose of warfarin

Clinical Annotations

• **Class 1A** rs1799853 C/C

Patients with the CC genotype who are treated with warfarin may require a higher dose as compared to patients with the CT or TT genotype. Other genetic and clinical factors may also influence a patient's dose of warfarin.

• **Class 1B** rs1057910 A/A

Patients with the AA genotype: 1) may require an increased dose of warfarin as compared to patients with the AC or CC genotype 2) may have a decreased risk for adverse events as compared to patients with the AC or CC genotype. Patients with the AA genotype may still be at risk for adverse events when taking warfarin based on their genotype. Other genetic and clinical factors may also influence a patient's risk for adverse events.

• **Class 2** rs7294 T/T

Patients with the TT genotype who are treated with warfarin may require a higher dose as compared to patients with the CC genotype. Other genetic and clinical factors may also influence a patient's required dose of warfarin.

• **Class 4** rs9934438 G/G

Patients with the GG genotype who are treated with warfarin may require higher dose as compared to patients with the AG or AA genotype. Other genetic and clinical factors may also influence a patient's required dose of warfarin.