

Advanced Diagnostic Laboratories

National Jewish Medical and Research Center

Warfarin Genotype



"Physicians face a challenge in initiating warfarin therapy. Its narrow therapeutic range and wide variability in patient response can lead to inadequate response or increased risk of bleeding. Studies have estimated that half of patients who could benefit from anticoagulant therapy are not receiving it, in part because of concern that patients could experience some form of bleeding complication." *AMA/Critical Path Institute, Mar 2008*;
http://www.ama-assn.org/ama1/pub/upload/mm/464/warfarin_brochure.pdf

Advanced Diagnostic Laboratories (ADx) now helps address this challenge with the availability of its Warfarin Genotyping assay. Together with non-genetic factors, the CYP2C9 & VKORC1 genotypes in this assay explain about 45 – 60% of variability in patient response to warfarin. ADx, as part of the National Jewish Medical and Research Center, is committed to providing Personalized Medicine, and is responsive to the August 2007 FDA recommendations for CYP2C9 and VKORC1 genotyping in helping guide appropriate warfarin dosing.

ADx test results provide the patient's CYP2C9*2 & CYP2C9*3 genotypes, as well as the VKORC1 (-1639G>A) genotype. The method – PCR, primer extension, and bead array hybridization – provides superior reliability and accuracy.

Improved processing efficiencies implemented by ADx make this test **the most cost-efficient Warfarin Genotyping choice available today.**

Test information

Test code:	WARF
Method:	PCR and allele-specific primer extension (ASPE) followed by bead array fluorescence detection.
Specimen type:	BUCCAL SWAB: Two foam-tipped swabs (Puritan cat. no. 25-1506 1PF). For collection instructions please contact Client Services at 800.550.6227 or click here for the test catalog. BLOOD SAMPLE: A full ACD soln A or ACD soln B vacutainer, or 500µL whole blood aliquot from ACD-anticoagulant tube. A full EDTA vacutainer is acceptable for testing. ACD is preferred.
Transport:	Samples should be shipped on cold pack.
Turn around time:	5 - 7 days, test run daily
CPT code:	83891, 83900 x1, 83901 x2, 83914 x3, 83912