Test Definition: WARFP

Warfarin Sensitivity Genotype by Sequence Analysis, Blood

Reporting Title: Warfarin Sensitivity Genotype
Performing Location: Rochester

Specimen Requirements:

This test is used for assessing CYP2C9 and VKORC1 genes for polymorphisms affecting the metabolism of warfarin/Coumadin. This assay should be ordered on patients who are receiving warfarin for the first time or who require decreased warfarin dosing to maintain the international normalized ratio (INR) in the therapeutic range.

If using drugs other than warfarin, order 2C9S / Cytochrome P450 2C9 Genotype by Sequence Analysis, Blood which only includes testing for the CYP2C9 gene.

Multiple whole blood EDTA genotype tests can be performed on a single specimen after a single extraction. See Multiple Whole Blood EDTA Genotype Tests in Special Instructions for a list of tests that can be ordered together.

Container/Tube: Lavender top (EDTA)
Specimen Volume: 3 mL
Collection Instructions: Send specimen in original tube.
Additional Information:
1. Bone marrow and liver transplants will interfere with testing. Call Mayo Medical Laboratories at 800-533-1710 or 507-266-5700 for instructions.
2. Transfusions will interfere with testing for up to 4 to 6 weeks. DNA obtained from white cells may not provide useful information for patients who received a recent transfusion of blood that was not leukocyte-reduced. Wait 4 to 6 weeks until transfused cells have left the patient's circulation before drawing the patient's blood specimen for genotype testing.
3. Cytochrome P450 Patient Education Brochure (Supply T526) is available upon request.
Forms: New York Clients-Informed consent is required. Please document on the request form or electronic order that a copy is on file. An Informed Consent for Genetic Testing (Supply T576) is available in Special Instructions.

Specimen Type	Temperature	Time
Whole Blood EDTA	Ambient (preferred)	
	Refrigerated	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
26941	Warfarin Sens Phenotype Interp	Alphanumeric		69047-9
32183	CYP2C9 Star Alleles/VKORC1 Genotype	Alphanumeric		54451-0
28359	CYP2C9 430C>T(*2)	Alphanumeric		In Process
28360	CYP2C9 818delA(*6)	Alphanumeric		In Process
28361	CYP2C9 1075A>C(*3)	Alphanumeric		In Process

Result ID	Reporting Name	Type	Unit	LOINC®
28362	CYP2C9 1076T>C(*4)	Alphanumeric		In Process
28363	CYP2C9 1080C>G(*5)	Alphanumeric		In Process
87988	VKORC1 -1639G>A	Alphanumeric		In Process
28332	Warfarin Sens Genotype Interp	Alphanumeric		69047-9
28364	Warfarin Sensitivity Reviewed by	Numeric		In Process
WARFQ	Warfarin Sensitivity Genotyping	Alphanumeric		In Process

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
Billing only	CYP2C9 GENE COM VARIANTS	1	81227		
Billing only	VKORC1 GENE	1	81355		
WARFS	Warfarin Sensitivity, Genotype		Profile	Yes	No
WARFQ	Warfarin Sensitivity Genotyping	1	81223	Yes	No

Reference Values:

An interpretive report will be provided.