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Pharmacogenomic Testing Available

MercyOne Des Moines Laboratory is able to offer testing for preemptive or reactive genotyping of patients for pharmacogenomics purposes.

This test is referred to Mayo Clinical Laboratories and includes the following targeted genes: CYP1A2, CYP2C9, CYP2C19, CYP2D6, CYP3A4, CYP3A5, SLCO1B1, VCORC1, CYP4F2 and rs12777823. The comprehensive testing algorithm is included below.

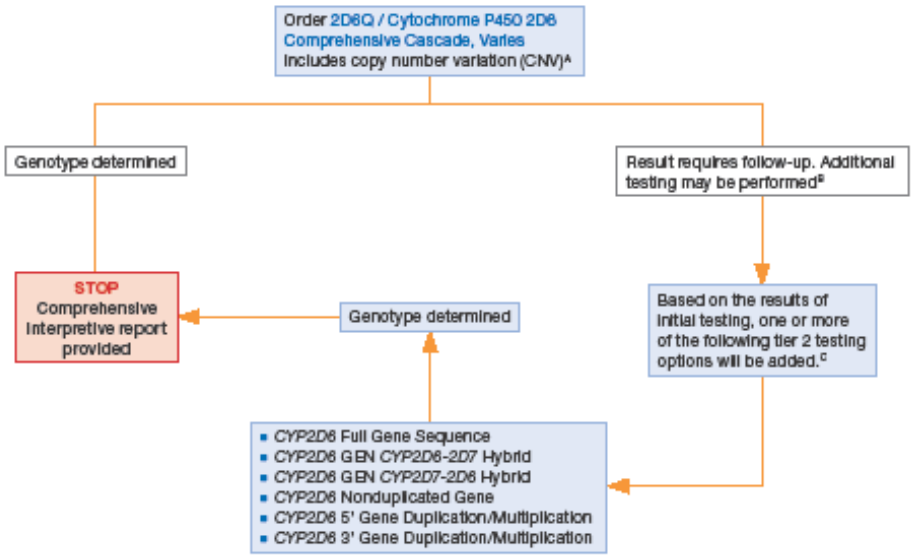
Mayo Test Name: Focused Pharmacogenomics Panel, Varies
Mayo Test ID: PGXQP
Sample Requirement: Whole blood, Lavender (EDTA), 3 ml.

Laboratory Location	**Test Order Instruction**
Central Iowa/Des Moines	Order as: PGXQP – Focused Pharmacogenomics Panel, Varies Order available in Allscripts, Atlas and Cerner

NOTE*: Some payers are deeming this testing as "experimental" and therefore are not covering charges. Please have patient complete a waiver to accept charges should insurance deny payment.*

MAYO CLINIC LABORATORIES

CYP2D6 Comprehensive Cascade Testing Algorithm*



Clickable PDF
Click on blue texts to view test catalog information

*Additional testing is performed to derive as accurate a phenotype as possible.
[A]Always performed
[B]Additional testing may be performed (only approximately 3% of individuals may need additional testing) for the following reasons:

1. No call on an assay for a single nucleotide variant
2. Genotype pattern does not fit known star allele
3. Duplication involving alleles with different levels of activity
4. Genotype/phenotype discord
5. Laboratory director request (*CYP2D6* real time PCR and CNV assays must be completed first)
6. Ambiguous genotype leading to ambiguous phenotype.

[C] Tier 2 testing performed on blood specimens only: The number of sequencing tests needed to determine the phenotype will vary depending on the tier 1 result. Due to lower concentration of DNA yielded from saliva, testing cannot proceed to tier 2 sequencing and will stop after tier 1 testing is complete.