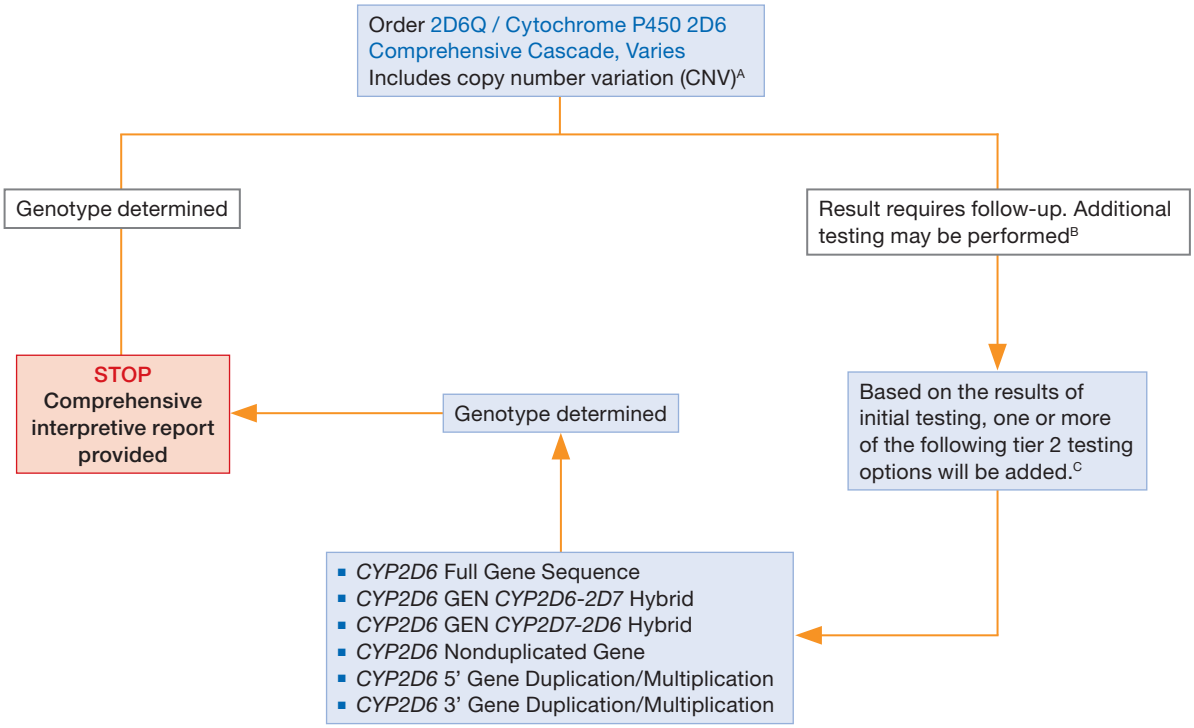
MAYO CLINIC LABORATORIES

CYP2D6 Comprehensive Cascade Testing Algorithm*



Clickable PDF
Click on blue tests 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.

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