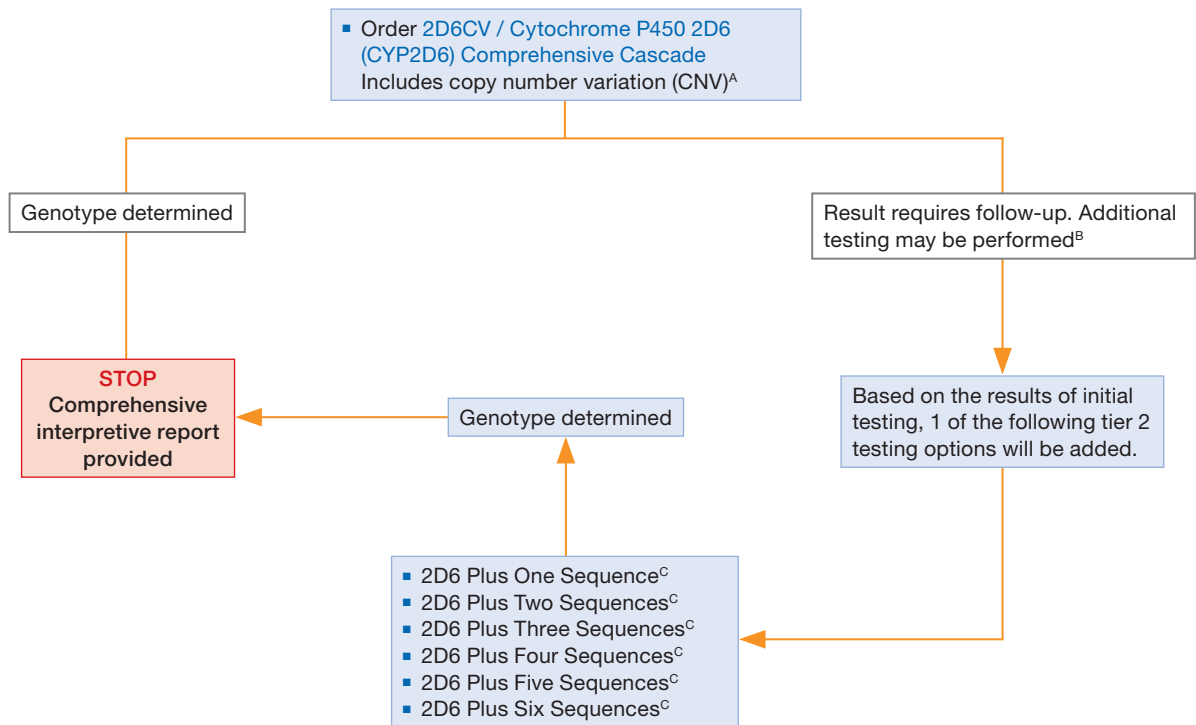


## CYP2D6 Comprehensive Cascade Testing Algorithm\*



\*Additional testing is performed to derive as accurate a phenotype as possible.

<sup>A</sup>Always performed

<sup>B</sup>Additional testing may be performed (only approximately 3% of individuals may need additional testing) for the following reasons:

1. No call on single nucleotide polymorphism
2. Single nucleotide polymorphism 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)

<sup>C</sup> Tier 2 sequence test options include: *CYP2D6* full gene sequencing, *CYP2D6-2D7* gene sequencing, *CYP2D7-2D6* gene sequencing, *CYP2D6* duplication sequence A, *CYP2D6* duplication sequence B, *CYP2D6* duplication sequence C. The test assigned is based on the total number of sequence test options performed.