CYP2D6 Comprehensive Cascade Testing Algorithm *

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

Always performed

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)

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.