**CYP2D6 Comprehensive Cascade Testing Algorithm**

*Order 2D6CV / Cytochrome P450 2D6 (CYP2D6) Comprehensive Cascade includes copy number variation (CNV)*

**Genotype determined**

**Result requires follow-up. Additional testing may be performed**

**Based on the results of initial testing, 1 of the following tier 2 testing options will be added.**

- 2D6 Plus One Sequence
- 2D6 Plus Two Sequences
- 2D6 Plus Three Sequences
- 2D6 Plus Four Sequences
- 2D6 Plus Five Sequences
- 2D6 Plus Six Sequences

**STOP Comprehensive interpretive report provided**

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*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.