Suppl Table

Genes in the PharmVar database ('PharmVar Genes') have been extensively curated before or after their transition into the PharmVar database or have been transitioned with limited curation. Several genes are still awaiting curation before being transitioned.

PharmVar Genes	In PharmVar database (yes/no/pending/legacy status)	Gene curated (yes/no/limited/pending)	Core alleles defined and available in CAVE (yes/no/pending)
CYP2A6	pending[1]	pending[1]	pending[1]
CYP2A7	yes	limited	no
CYP2A13	yes	limited	yes
CYP2B6[2]	yes	yes	yes
CYP2C8	yes	yes	yes
CYP2C9[2]	yes	yes	yes
CYP2C19[2]	yes	yes	yes
CYP2D6[2]	yes	yes	yes
CYPs 2F1, 2J2, 2R1, 2S1, 2W1	yes	limited	no
CYP3A4	yes	yes	yes
CYP3A5[2]	yes	yes	yes
CYP3A7	yes	limited	no
CYP3A43	yes	limited	no
CYP4F2	yes	limited	no
CYP1A1, CYP1A2, CYP1B1, CYP2E1	no[3]	no	no
DPYD	yes	yes	n/a[4]
NUDT15	yes	yes	pending
SLCO1B1	pending[1]	pending[1]	pending[1]
TBXAS1, PTGIS, POR, CYP4A11, CYP4A22, CYP4B1, CYP17A1, CYP19A1, CYP21A2 and *CYP26A1*	legacy status	legacy status	legacy status

No curations indicates that no changes have been made since the Human Cytochrome P450 (CYP) Allele Nomenclature Database has been transitioned to PharmVar; limited curation denotes that no extensive literature search has been performed since the transition or any new data been obtained or submitted to PharmVar; the Comparative Allele ViewEr (CAVE) is a PharmVar-developed tool to compare core

alleles graphically (more info and examples please see the Read Me document provided for each each); legacy status indicates that these genes were previously maintained by the Human Cytochrome P450 (CYP) Allele Nomenclature Database but are currently not supported by PharmVar.

[1] *CYP2A6* is anticipated to be completed and transitioned into the PharmVar database in fall 2021 and *SLCO1B1* is projected to be introduced to PharmVar in summer 2021.

[2] GeneFocus Review published for *CYP2B6*, *CYP2C19* and *CYP2D6* (1-3), submitted (*CYP2C9*) or in preparation *(CYP3A5*) describing extensive curation efforts for respective genes.

[3] Star allele definitions of these will require extensive curation and likely also major revisions for star allele designations to align them with current PharmVar rules and standards.

[4] *DPYD* variation is not haplotype-based and thus, nomenclature is not using star nomenclature; therefore, there are no core allele definitions. Rather, *DPYD* variation is displayed using rsID.