

PGx Medical Management Panel evaluates 42 genes

ABCB1, ABCG2, ADRA2A, ADRB1, AGT, CACNA1C, CES1, CFTR, COMT, CYP1A2, CYP2C9, CYP2C19, CYP2D6, CYP3A4, CYP3A5, DPYD, DRD1, DRD2, DRD3, EDN1, F2, F5, GNB3, GRIK1, GSTA1, HTR1A, HTR2A, HTR2C, IFNL3, KCNIP1, LDLR, MTHFR, NAT1, NR1H3, OPRM1, RYR1, SLC6A2, SLCO1B1, TPMT, UGT2B10, UGT2B7, VKORC1

Disease Type	Drug	Gene
ADHD	Amphetamine (ADDERALL®)	OPRM1
	Dexmethylphenidate (FOCALIN®)	
	Dextroamphetamine (DEXEDRINE®, PROCENTRA®, DEXTROSTAT®)	DRD1
	Lisdexamfetamine (VYVANSE®)	SLC6A2
	Methylphenidate (RITALIN®, CONCERTA®, DAYTRANA®, METADATE®)	DRD3
ANTIARRHYTHMICS	Digoxin (LANOXIN®, DIGITEK®)	ABCB1
	Flecainide (TAMBACOR™)	CYP2D6
	Propafenone (RYTHMOL SR®)	CYP2D6
ANTICOAGULANTS	Warfarin (COUMADIN®)	CYP2C9, VKORC1
ANTIDEPRESSANTS	Amitriptyline (ELAVIL®)	CYP2C19, CYP2D6,
	Clomipramine (ANAFRANIL®)	CYP2D6
	Desipramine (NORPRAMIN®)	CYP2D6
	Doxepin (SINEQUAN®)	CYP2D6
	Imipramine (TOFRANIL™)	CYP2D6
	Nortriptyline (PAMELOR™)	CYP2D6
	Trimipramine (SURMONTIL®)	CYP2D6
	Citalopram (CELEXA®)	CYP2C19
	Escitalopram (LEXAPRO®)	CYP2C19
	Duloxetine (CYMBALTA®)	DRD3
	Sertraline (ZOLOFT®)	CYP2C19
	Paroxetine (PAXIL®, PEXEVA®)	CYP2D6
Venlafaxine (EFFEXOR®)	CYP2D6, ABCB1, HTR2A, SLC6A2,	

		COMT, CYP2C19
ANTIDIABETICS	Repaglinide (PRANDIN®)	SLCO1B1
	Tolbutamide (ORINASE®)	CYP2C9
ANTIEPILEPTICS	Mephenytoin (MESANTOIN®)	CYP2C19
	Phenytoin (DILANTIN®)	CYP2C9
	Valproic Acid (DEPAKOTE®, STAVZOR®)	ABCB1, CYP2C19, CYP2C9
ANTIHYPERTENSIVES	Atenolol (TENORMIN®)	AGT, ADRB2, ABCB1, ABCB1, ADRA2A, ADRB1, GNB3, LDLR
	Enalapril (VASOTEC®, EPANED™)	SLCO1B1
	Losartan (COZAAR®, HYZAAR®)	ABCB1, CYP2C9
	Timolol (TIMOPTIC®, ISTALOL®, BETIMOL®)	ADRB1, CYP2D6
	Verapamil (COVERA®, CALAN®, VERELAN®)	ABCB1, ADRB1
	Benazepril (LOTENSIN®)	MTHFR, AGT
	Imidapril (TANATRIL®)	AGT
	Irbesartan (AVAPRO®)	AGT, CYP2C9
	Metoprolol (LOPRESSOR®, TOPROL XL®)	CYP2D6, ADRB1
ANTIPSYCHOTICS	Aripiprazole (ABILIFY®)	DRD2, CYP2D6
	Clozapine (CLOZARIL®, FAZACLO®)	DRD2, HTR2C, MTHFR, DRD3, HTR1A, DRD1, ABCB1, COMT, CYP1A2
	Haloperidol (HALDOL®)	COMT, CYP2D6
	Olanzapine (ZYPREXA®)	MTHFR, DRD3, HTR1A, ABCB1, DRD2, HTR2A, CYP1A1, CYP1A2, CYP2C9, CYP2D6, CYP3A5
	Risperidone (RISPERDAL®)	DRD2, CYP2D6, HTR2C, DRD3, ADRB2, HTR1A, ABCB1, CYP3A4, HTR2A, COMT
BENZODIAZEPINES	Diazepam (VALIUM®)	CYP2C19

CHEMOTHERAPEUTICS	Capecitabine (XELODA®)	DPYD
	Fluorouracil (EFUDEX®, CARAC®, FLUOROPLEX®, ADRUCIL®)	DPYD
	Methotrexate (RASUVO®, OTREXUP™, TREXALL™)	MTHFR, ABCB1, SLCO1B1,
	Paclitaxel (ABRAXANE®)	OPRM1, ABCB1, CYP3A4, CYP3A5
	Cisplatin (PLATINOL®)	MTHFR, TPMT, ABCB1, COMT
	Cyclophosphamide (CYTOXAN®)	MTHFR, TPMT, ABCB1, CYP3A4, CYP2C19, SLCO1B1
	Leucovorin (FUSILEV®)	MTHFR
	Mercaptopurine (PURINETHOL®, PURIXAN®)	TPMT
	Oxaliplatin (ELOXATIN®)	MTHFR, ABCB1
	Tegafur	DPYD
	Thioguanine (TABLOID®)	TPMT
	Tamoxifen (NOLVADEX®, SOLTAMOX®)	CYP2D6, ABCB1, CYP3A4, CYP2C19
CORTICOSTEROIDS		
	Prednisone (DELTASONE®, STERAPRED®)	ABCB1
CYSTIC FIBROSIS		
	Ivacaftor (KALYDECO®)	CFTR
GENERAL ANESTHETICS		
	Desflurane (SUPRANE®)	RYR1
	Isoflurane (FORANE®)	RYR1
	Sevoflurane (ULTANE®, SOJOURN®)	ADRB2, RYR1
	Succinylcholine (ANECTINE®, QUELICIN®)	RYR1
	Nitrous Oxide (NITRONOX)	MTHFR
HEPATITIS ANTIVIRALS		
	Peginterferon-alfa (PEGASYS®, PEGINTRON®, SYLATRON®)	IFNL3
	Ribavirin (COPEGUS®, REBETOL®)	IFNL3
HIV/AIDS		
	Efavirenz (SUSTIVA®)	CYP2B6
	Nelfinavir (VIRACEPT®)	ABCB1, CYP2C19
	Nevirapine (VIRAMUNE®)	ABCB1, CYP3A5, CYP2D6
IMMUNOSUPPRESSANTS		
	Azathioprine (IMURAN®)	TPMT

	Cyclosporine (SANDIMMUNE®)	CYP3A5, ABCB1, CYP3A4
	Sirolimus (RAPAMUNE®)	CYP3A5, ABCB1, CYP3A4
	Tacrolimus (PROGRAF®)	CYP3A5, CYP3A4, ABCB1, CYP2C19
MUSCLE RELAXANTS		
	Carisoprodol (SOMA®)	CYP2C19
NSAIDS		
	Celecoxib (CELEBREX®)	CYP2C9
	Diclofenac (VOLTAREN®, CATAFLAM®)	CYP2C9
OPIOIDS		
	Codeine (TYLENOL® #3)	CYP2D6
	Hydrocodone (LORTAB®, VICODIN®)	OPRM1
	Oxycodone (OXYCONTIN®, Tramadol (ULTRAM®, PERCOCET®)	CYP2D6, ABCB1
PLATELET AGGREGATION INHIBITORS		
	Clopidogrel (PLAVIX®)	CYP2C19
PROTON PUMP INHIBITORS		
	Lansoprazole (PREVACID®)	CYP2C19, ABCB1
	Omeprazole (PRILOSEC®)	CYP2C19, ABCB1
	Pantoprazole (PROTONIX®)	ABCB1, CYP2C19
STATINS		
	Atorvastatin (LIPITOR®)	RYR2, ABCB1, CYP3A5, CYP3A4, SLCO1B1, ABCG2
	Fluvastatin (LESCOL®)	ABCB1, CYP3A4, SLCO1B1
	Lovastatin (ALTOPREV®, MEVACOR®)	CYP3A5, SLCO1B1, CYP2D6, LDLR
	Rosuvastatin (CRESTOR®)	SLCO1B1, CYP3A5, ABCG2
	Pravastatin (PRAVACHOL®)	SLCO1B1, MTHFR, LDLR
	Simvastatin (ZOCOR®, SIMCOR®)	SLCO1B1, ABCB1, CYP3A5, CYP3A4, CYP2C9, LDLR
THROMBOPHILIA		
	Thrombophilia	F2, F5, MTHFR