



Pharmacogenomics (PGx) Panel Impacted Medication List

The following chart illustrates impacted medications analyzed by the AccessDx pharmacogenomics test with supporting clinical evidence. Lists are updated periodically to incorporate new medications and clinical evidence as appropriate. Please also refer to established clinical resources, including the FDA's Table of Pharmacogenomic Associations and the Clinical Pharmacogenetics Implementation Consortium (CPIC®) Guidelines for Genes-Drugs Pairs, for the latest information regarding pharmacogenomic test interpretations and interventions. A pharmacogenomic report is one of multiple pieces of information that a clinician should consider in guiding their therapeutic choice for each patient.

CARDIOVASCULAR & DIABETES	ANTIARRHYTHMICS	Flecainide (Tambocor®) Mexiletine (Mexitol®) Propafenone (Rythmol®)	CYP2D6 CYP2D6 CYP2D6
	ANTICOAGULANTS	Warfarin (Coumadin®)	CYP2C9_VKORC1
	ANTIHYPERTENSIVES	Azilsartan (Edarbi®; Edarbyclor®)	CYP2C9
		Irbesartan (Avapro®)	CYP2C9
		Losartan (Cozaar®, Hyzaar®)	CYP2C9
		Metoprolol (Lopressor®)	CYP2D6
		Nebivolol (Bystolic®)	CYP2D6
	ANTIPLATELETS	Torsemide (Demadex®)	CYP2C9
	ANTIPLATELETS	Clopidogrel (Plavix®)	CYP2C19
	ANTIDIABETICS	Nateglinide (Starlix®)	CYP2C9, SLCO1B1
		Repaglinide (Prandin)	SLCO1B1
	STATINS	Atorvastatin (Lipitor®)	SLCO1B1
		Fluvastatin (Lescol®)	CYP2C9
Lovastatin (Mevacor®)		CYP3A4, SLCO1B1	
Pitavastatin (Livalo®)		SLCO1B1	
Pravastatin (Pravachol®)		SLCO1B1	
Rosuvastatin (Crestor®)		SLCO1B1	
THROMBOPHILIA	Simvastatin (Zocor®)	SLCO1B1	
	Thrombosis Hyperhomocysteinemia	F2F5 MTHFR	
PAIN MEDICINE	MUSCLE RELAXANTS	Carisoprodol (Soma®)	CYP2C19
		Tizanidine (Zanaflex®)	CYP1A2
	NSAIDs	Celecoxib (Celebrex®)	CYP2C9
		Flurbiprofen (Ansaid®)	CYP2C9
		Ibuprofen (Advil®, Motrin®)	CYP2C9
		Meloxicam (Mobic®)	CYP2C9
	OPIOIDS	Piroxicam (Feldene®)	CYP2C9
		Benzhydrocodone (Apadaz®)	CYP2D6
		Codeine (Codeine; Fioricet® with Codeine)	CYP2D6
		Fentanyl (Actiq®)	OPRM1
		Hydrocodone (Vicodin®)	CYP2D6
		Methadone (Dolophine®)	CYP2B6
		Morphine (MS Contin®)	OPRM1
Oxycodone (Percocet®, Oxycotin®)	CYP2D6		
Tramadol (Ultram®)	CYP2D6		
ONCOLOGY	ANTINEOPLASTIC AGENTS	Azathioprine (Imuran®)	TPMT
		Cabecicabine (Xeloda®)	DPYD
		Erdafitinib (Balversa®)	CYP2C9
		Fluorouracil (Efudex®)	DPYD
		Gefitinib (Iressa®)	CYP2D6
		Mercaptopurine (Purinethol®)	TPMT
		Methotrexate (Trexall®)	MTHFR
		Tamoxifen (Nolvadex®)	CYP2D6
		Thioguanine (Tabloid®)	TPMT

Pharmacogenomics (PGx) Panel Impacted Medication List (continued)

NEUROPSYCHIATRY	ANTIDEPRESSANTS	Amitriptyline (Elavil®)	CYP2D6, CYP2C19
		Amoxapine (Amoxapine®)	CYP2D6
		Bupropion (Wellbutrin®)	CYP2B6
		Citalopram (Celexa®)	CYP2C19, SLC6A4
		Clomipramine (Anafranil®)	CYP2D6, CYP2C19
		Desipramine (Norpramin®)	CYP2D6
		Desvenlafaxine (Pristiq®)	CYP2D6
		Imipramine (Tofranil®)	CYP2D6, CYP2C19
		Maprotiline (Ludiomil®)	CYP2D6
		Nefazodone (Serzone®)	CYP2D6
		Nortriptyline (Pamelor®)	CYP2D6
		Paroxetine (Paxil®)	CYP2D6
		Protriptyline (Vivactil®)	CYP2D6
		Sertraline (Zoloft®)	CYP2C19
		Trimipramine (Surmontil®)	CYP2D6, CYP2C19
	Venlafaxine (Effexor®)	CYP2D6	
	Vortioxetine (Trintellix®)	CYP2D6	
	ANTIPSYCHOTICS	Aripiprazole (Ablify®, Aristada®)	CYP2D6
		Brexipiprazole (Rexulti®)	CYP2D6
		Chlorpromazine (Thorazine®)	CYP2D6
		Clozapine (Clozaril®)	CYP1A2
		Doxepin (Silenor®)	CYP2D6, CYP2C19
		Escitalopram (Lexapro®)	CYP2C19, SLC6A4
		Fluoxetine (Prozac®)	CYP2D6
		Fluvoxamine (Luvox®)	CYP2D6, SLC6A4
		Haloperidol (Haldol®)	CYP2D6
		Iloperidone (Fanapt®)	CYP2D6
		Olanzapine (Zyprexa®)	CYP1A2
		Paliperidone (Invega®)	CYP2D6
		Perphenazine (Trilafon®)	CYP2D6
		Pimozide (Orap®)	CYP2D6
		Risperidone (Risperdal®)	CYP2D6
		Tetrabenazine (Xenazine®)	CYP2D6
		Thioridazine (Mellaril®)	CYP2D6
	ADD & ADHD AGENTS	Amphetamine (Adderall®)	COMT, CYP2D6
		Atomoxetine (Strattera®)	CYP2D6
		Dexmethylphenidate (Focalin®)	COMT
		Dextroamphetamine (Dexedrine®)	COMT, CYP2D6
		Lisdexamfetamine (Vyvanse®)	COMT, CYP2D6
		Methylphenidate (Ritalin®)	COMT
	ANTICONVULSANTS	Brivaracetam (Briviact®)	CYP2C19
		Clobazam (Onfi®)	CYP2C19
		Fosphenytoin (Cerebvx®)	CYP2C9
		Phenobarbital (Luminal®)	CYP2C19
		Phenytoin (Dilantin®)	CYP2C9
		Primidone (Mysoline®)	CYP2C19
	Zonisamide (Zonegran®)	CYP2C19	
ANTIDEMENTIA AGENTS	Donepezil (Aricept®)	CYP2D6	
	Galantamine (Razadyne®)	CYP2D6	
OTHER	Dextromethorphan/Quinidine (Nuedexta®)	CYP2D6	
	Diazepam (Valium®)	CYP2C19	
	Lorazepam (Ativan®)	UGT2B15	
	Oxazepam (Serax®)	UGT2B15	
	Pitolisant (Wakix®)	CYP2D6	
Valbenazine (Ingrezza®)	CYP2D6		
OTHER SPECIALTIES	GASTROENTEROLOGY	Dexlansoprazole (Dexilant®, Kapidex®)	CYP2C19
		Dolasetron (Anzemet®)	CYP2D6
		Dronabinol (Marinol®)	CYP2C9
		Esomeprazole (Nexium®)	CYP2C19
		Fosnetupitant / Palonosetron (Akyzneo-IV®)	CYP2D6
		Lansoprazole (Prevacid®)	CYP2C19
		Metoclopramide (Reglan®)	CYP2D6
		Netupitant / Palonosetron (Akyzneo-oral®)	CYP2D6
		Omeprazole (Prilosec®)	CYP2C19
		Ondansetron (Zofran®, Zuplenz®)	CYP2D6
		Palonosetron (Aloxi®)	CYP2D6
		Pantoprazole (Protonix®)	CYP2C19
		Rabeprazole (Aciphex®)	CYP2C19
		INFECTIONS	Efavirenz (Sustiva®)
	Flucytosine (Ancobon®)		DPYD
	Proguanil (Malarone®)		CYP2C19
	Voriconazole (Vfend®)		CYP2C19
	Bupropion (Wellbutrin®, Contrave®)		CYP2B6
	ADDICTION MEDICINE	Lofexidine (Lucemyra®)	CYP2D6
		Methadone (Dolophine®)	CYP2B6
		Naltrexone (Vivitrol®, Contrave®)	OPRM1