

**This document lists genes and associated medications that could be affected. To assist in potential medically necessity, the drug/gene listing should have level 1 evidence and be part of our panel of genes tested. Our genes include: ANKK1/DRD2, APOE, COMT, CYP1A2, CYP2B6, CYP2C19, CYP2C9, CYP2D6, CYP3A4, CYP3A5, F2, F5, MTHFR, OPRM1, SLCO1B1, VKORC1.**

Last Updated 11/4/20

Evidence Level 1	Actionable	ESTABLISHED EVIDENCE-BASED CLINICAL GUIDELINES	Recommendations extracted from evidence based guidelines issued by international pharmacogenetic consortia, professional societies or regulatory bodies (CPIC, DPWG, FDA, EMA, CPNDS, ACMG, RNPgX, GPCO)*. Recommendations suitable for implementation in a clinical setting. Guidelines may be updated as new knowledge arises.
Evidence Level 2	Informative	DRUG-GENE ASSOCIATIONS REQUIRING FURTHER INVESTIGATION	There are no established evidence based guidelines issued by experts. The evidence documenting the genetic associations may be limited or insufficient. In some cases the evidence is still disputed. Recommendations are informative and implementation in a clinical setting is optional.

\* ACMG; American College of Medical Genetics and Genomics - CPIC; Clinical Pharmacogenetics Implementation Consortium - CPNDS; Canadian Pharmacogenomics Network for Drug Safety - DPWG; Dutch Pharmacogenetics Working Group - FDA; US Food and Drug Administration - EMA; European Medicines Agency - RNPgX; French National Network of Pharmacogenetics - GPCO; Groupe de Pharmacologie Clinique Oncologique

Category	With Pharmacogenetic Associations*	Generic Name	Trade Name(s)	Therapeutic Class	Pharmacogene(s)	Evidence Level (s)	Pediatric Guidance	
Anesthesia	No	Propofol	Diprivan	Injectable Anesthetics				
	Yes	Succinylcholine	Anectine, Quelicin	Depolarizing Muscle Relaxants	CACNA1S, RYR1	1,1	Available	
		Desflurane	Suprane	Inhaled Anesthetics	CACNA1S, RYR1	1,1	Available	
		Enflurane	Ethrane	Inhaled Anesthetics	CACNA1S, RYR1	1,1	Available	
		Halothane	Fluothane	Inhaled Anesthetics	CACNA1S, RYR1	1,1	Available	
		Isoflurane	Forane	Inhaled Anesthetics	CACNA1S, RYR1	1,1	Available	
		Sevoflurane	Sojourn, Ultane	Inhaled Anesthetics	CACNA1S, RYR1	1,1	Available	
	No	Anastrozole	Arimidex	Aromatase Inhibitors				
		Exemestane	Aromasin	Aromatase Inhibitors				
		Letrozole	Femara	Aromatase Inhibitors				
			Azathioprine	Azasan, Imuran	Thiopurines	TPMT, NUDT15	1,1	Available
			Belinostat	Beleodaq	Histone Deacetylase Inhibitors	UGT1A1	1	
			Capecitabine	Xeloda	Fluoropyrimidines	DPYD	1	Available
			Cisplatin	Platinol	Platinum Compounds	ACYP2	2	Available
			Erdafitinib	Balversa	Protein Kinase Inhibitors	CYP2C9	1	
			Dabrafenib	Tafinlar	Protein Kinase Inhibitors	G6PD	1	
			Daunorubicin	Cerubidine	Anthracyclines	RARG, SLC28A3, UGT1A6	1,1,1	Available*
			Daunorubicin Liposomal	Vyxeos, DaunoXome	Anthracyclines	RARG, SLC28A3, UGT1A6	1,1,1	Available*
			Doxorubicin	Adriamycin, Rubex	Anthracyclines	RARG, SLC28A3, UGT1A6	1,1,1	Available*
			Doxorubicin Liposomal	Doxil	Anthracyclines	RARG, SLC28A3, UGT1A6	1,1,1	Available*

Cancer	Yes	Erlotinib	Tarceva	Protein Kinase Inhibitors	UGT1A1	1	
		Fluorouracil	Adrucil, Carac, Efudex	Fluoropyrimidines	DPYD	1	Available
		Gefitinib	Iressa	Protein Kinase Inhibitors	CYP2D6	1	
		Irinotecan	Camptosar	Topoisomerase Inhibitors	UGT1A1	1	
		Irinotecan Liposomal	Onivyde	Topoisomerase Inhibitors	UGT1A1	1	
		Mercaptopurine	Purinethol, Purixan	Thiopurines	TPMT, NUDT15	1,1	Available
		Methotrexate	Trexall	Antifolates	MTHFR	2	
		Nilotinib	Tasigna	Protein Kinase Inhibitors	UGT1A1	1	
		Paclitaxel	Taxol, Abraxane	Taxanes	CYP2C8	2	
		Pazopanib	Votrient	Protein Kinase Inhibitors	UGT1A1, HLA-B*57:01	1,1	
		Rasburicase	Elitek	Detoxifying Agents	G6PD	1	
		Sacituzumab Govitecan-hziy	Trodelyv	Topoisomerase Inhibitors	UGT1A1	1	
		Tamoxifen	Nolvadex, Soltamox	Anti-Estrogens	CYP2D6	1	
		Thioguanine	Tabloid	Thiopurines	TPMT, NUDT15	1,1	Available
Vincristine	Oncovin, Marqibo Kit, Vincasar PFS	Tubulin Inhibitors	CEP72	2	Available		
Cardiovascular	No	Amiodarone	Nexterone, Pacerone	Antiarrhythmics			
		Apixaban	Eliquis	Anticoagulants			
		Atenolol	Tenormin	Beta Blockers			
		Betrixaban	Bevyxxa	Anticoagulants			
		Bisoprolol	Zebeta	Beta Blockers			
		Candesartan	Atacand	Angiotensin II Receptor Antagonists			
		Carvedilol	Coreg	Beta Blockers			
		Dabigatran Etxilate	Pradaxa	Anticoagulants			
		Disopyramide	Norpace	Antiarrhythmics			
		Edoxaban	Savaysa	Anticoagulants			
		Eprosartan	Teveten	Angiotensin II Receptor Antagonists			
		Fluvastatin	Lescol	Statins			
		Fondaparinux	Arixtra	Anticoagulants			
		Labetalol	Normodyne, Trandate	Beta Blockers			
		Olmesartan	Benicar	Angiotensin II Receptor Antagonists			
		Prasugrel	Effient	Antiplatelets			
		Quinidine	Quinidine	Antiarrhythmics			
		Rivaroxaban	Xarelto	Anticoagulants			
		Sotalol	Betapace, Sorine, Sotylize	Antiarrhythmics			
		Telmisartan	Micardis	Angiotensin II Receptor Antagonists			
	Ticagrelor	Brilinta	Antiplatelets				
	Valsartan	Diovan, Entresto	Angiotensin II Receptor Antagonists				
	Vorapaxar	Zontivity	Antiplatelets				
	Atenolol	Tenormin	Beta Blockers	CACNA1C	2		
	Atorvastatin	Lipitor	Statins	SLCO1B1, CYP3A4	1,2		
	Azilsartan	Edarbi, Edarbyclor	Angiotensin II Receptor Antagonists	CYP2C9	2		
	Clopidogrel	Plavix	Antiplatelets	CYP2C19	1	Available	
	Flecainide	Tambocor	Antiarrhythmics	CYP2D6	1		
	Fluvastatin	Lescol	Statins	CYP2C9, ABCG2	2,2		
	Hydrochlorothiazide	Esidrix, Microzide	Diuretics	12q15	2		
	Irbesartan	Avapro	Angiotensin II Receptor Antagonists	CYP2C9	2		
	Losartan	Cozaar, Hyzaar	Angiotensin II Receptor Antagonists	CYP2C9	2		
	Lovastatin	Mevacor, Altoprev, Advicor	Statins	CYP3A4, SLCO1B1	2,2		
	Metoprolol	Lopressor	Beta Blockers	CYP2D6	1		
Mexiletine	Mexitil	Antiarrhythmics	CYP2D6	1			
Nebivololol	Bystolic	Beta Blockers	CYP2D6	1			
	Yes						

	Yes	Nitroglycerin	Gonitro, Minitran, Nitro-Dur, Nitromist, Nitrostat	Antianginal Agents	ALDH2	2	
		Pitavastatin	Livalo	Statins	SLCO1B1	2	
		Pravastatin	Pravachol	Statins	SLCO1B1	2	
		Propafenone	Rythmol	Antiarrhythmics	CYP2D6	1	
		Propranolol	Inderal	Beta Blockers	CYP2D6	1	
		Ranolazine	Ranexa	Antianginal Agents	CYP2D6	1	
		Rosuvastatin	Crestor	Statins	SLCO1B1, ABCG2	2,2	
		Simvastatin	Zocor	Statins	SLCO1B1, CYP3A4	1,2	Available
		Timolol	Timoptic	Beta Blockers	CYP2D6	2	
		Torsemide	Demadex	Diuretics	CYP2C9	2	
		Verapamil	Covera-HS, Verelan, Isoptin	Calcium Channel Blockers	CACNA1C	2	
		Warfarin	Coumadin	Anticoagulants	CYP2C9, VKORC1, CYP4F2, CYP2C	1,1,1,1	Available (CYP2C9, VKORC1)
Diabetes	No	Chlorpropamide	Diabinese	Sulfonylureas			
		Glimepiride	Amaryl	Sulfonylureas			
		Glipizide	Glucotrol	Sulfonylureas			
		Glyburide	Micronase	Sulfonylureas			
	Yes	Tolbutamide	Orinase	Sulfonylureas			
		Metformin	Glucophage	Biguanides	C11orf65, SLC47A2	2,2	
		Nateglinide	Starlix	Meglitinides	CYP2C9, SLCO1B1	2,2	
		Pioglitazone	Actos, Oseni	Thiazolidinediones	CYP2C8	2	
		Repaglinide	Prandin, Prandimet	Meglitinides	CYP2C8, SLCO1B1	2,2	
		Rosiglitazone	Avandia	Thiazolidinediones	CYP2C8	2	
Gastrointestinal	No	Aprepitant	Emend (Oral)	Antiemetics			
		Fosaprepitant	Emend-IV (Injection)	Antiemetics			
		Granisetron	Sancuso, Sustol	Antiemetics			
	Yes	Rolapitant	Varubi	Antiemetics			
		Dexlansoprazole	Dexilant, Kapidex	Proton Pump Inhibitors	CYP2C19	1	Available
		Dolasetron	Anzemet	Antiemetics	CYP2D6	2	
		Dronabinol	Marinol	Antiemetics	CYP2C9	1	
		Esomeprazole	Nexium	Proton Pump Inhibitors	CYP2C19	1	Available
		Fosnetupitant / Palonosetron	Akynzeo-IV (Injection)	Antiemetics	CYP2D6	2	
		Granisetron	Sancuso, Sustol	Antiemetics	ABCB1	2	
		Lansoprazole	Prevacid	Proton Pump Inhibitors	CYP2C19	1	Available
		Metoclopramide	Reglan	Antiemetics	CYP2D6	1	
		Netupitant / Palonosetron	Akynzeo (Oral)	Antiemetics	CYP2D6	2	
		Omeprazole	Prilosec	Proton Pump Inhibitors	CYP2C19	1	Available
Ondansetron	Zofran, Zuplenz	Antiemetics	CYP2D6, ABCB1	1,2	Available (CYP2D6)		
		Palonosetron	Aloxi	Antiemetics	CYP2D6	2	
		Pantoprazole	Protonix	Proton Pump Inhibitors	CYP2C19	1	Available
		Rabeprazole	Aciphex	Proton Pump Inhibitors	CYP2C19	1	Available
Gaucher Disease	No	Imiglucerase	Cerezyme	Endocrine-Metabolic Agents			
		Miglustat	Zavesca	Endocrine-Metabolic Agents			
		Taliglucerase alfa	Eleyso	Endocrine-Metabolic Agents			
	Yes	Velaglucerase alfa	Vpriv	Endocrine-Metabolic Agents			
		Eliglustat	Cerdelga	Endocrine-Metabolic Agents	CYP2D6	1	Available
Gynecology	Yes	Elagolix	Orilissa	Endometriosis Pain Agents	SLCO1B1	1	
Hematology	Yes	Avatrombopag	Doptelet	Hemostatic Agents	F2, F5	1,1	
		Eltrombopag	Promacta	Hemostatic Agents	F5	1	Available
		Lusutrombopag	Mulpleta	Hemostatic Agents	F2, F5	1,1	

Infectious Diseases	No	Amphotericin B	AmBisome, Abelcet	Antifungals			
		Anidulafungin	Eraxis	Antifungals			
		Caspofungin	Cancidas	Antifungals			
		Dolutegravir	Tivicay, Triumeq	Anti-HIV Agents			
		Doravirine	Pifeltro	Anti-HIV Agents			
		Etravirine	Intelence	Anti-HIV Agents			
		Fluconazole	Diflucan	Antifungals			
		Isavuconazonium	Cresemba	Antifungals			
		Itraconazole	Sporanox	Antifungals			
		Micafungin	Mycamine	Antifungals			
		Posaconazole	Noxafil	Antifungals			
	Proguanil	Malarone	Antimalarials				
	Raltegravir	Isentress, Dutrebis	Anti-HIV Agents				
	Rilpivirine	Edurant	Anti-HIV Agents				
	Abacavir	Ziagen, Epzicom, Trizivir, Triumeq	Anti-HIV Agents	HLA-B*57:01	1		
	Amikacin	Amikin	Antibiotics - Aminoglycosides	MT-RNR1	1	Available	
	Atazanavir	Reyataz, Evotaz	Anti-HIV Agents	UGT1A1	1	Available	
	Chloroquine	Aralen	Antimalarials	G6PD	1		
	Dapsone	Aczone	Antibiotics	G6PD	1		
	Efavirenz	Sustiva	Anti-HIV Agents	CYP2B6	1	Available	
	Flucytosine	Ancobon	Antifungals	DPYD	1		
	Gentamicin	Gentamicin	Antibiotics - Aminoglycosides	MT-RNR1	1	Available	
	Hydroxychloroquine	Plaquenil	Antimalarials	G6PD	1		
	Methylene Blue	Uribel, Urogesic-Blue, Azuphen MB, UTA, Provayblue	Antibiotics	G6PD	1		
	Neomycin	Neo-Frandin	Antibiotics - Aminoglycosides	MT-RNR1	1	Available	
	Nitrofurantoin	Furadantin, Macrobid, Macrochantin	Antibiotics	G6PD	1		
	Paromomycin	Humatin	Antibiotics - Aminoglycosides	MT-RNR1	1	Available	
	Peginterferon alfa-2a	Pegasys	Interferons	IFNL3	1		
	Peginterferon alfa-2b	Pegintron, Sylatron	Interferons	IFNL3	1		
	Plazomicin	Zemdri	Antibiotics - Aminoglycosides	MT-RNR1	1		
	Primaquine	Primaquine	Antimalarials	G6PD	1		
	Quinine	Quaalquin	Antimalarials	G6PD	1		
Silver Sulfadiazine	Silvadene, SSD, Thermazene	Antibiotics	G6PD	1			
Sulfamethoxazole	Bactrim, Septra	Antibiotics	G6PD	1			
Streptomycin	Streptomycin	Antibiotics - Aminoglycosides	MT-RNR1	1	Available		
Tafenoquine	Krintafel, Arakoda	Antimalarials	G6PD	1			
Tobramycin	Nebcin	Antibiotics - Aminoglycosides	MT-RNR1	1	Available		
Voriconazole	Vfend	Antifungals	CYP2C19	1	Available		
Multiple Sclerosis	Yes	Siponimod	Mayzent	Disease-Modifying Agents	CYP2C9	1	
	No	Cannabidiol	Epidiolex	Anticonvulsants			
		Carbamazepine	Tegretol, Carbatrol, Epitol	Anticonvulsants			
		Eslicarbazepine Acetate	Aptiom	Anticonvulsants			
		Ethosuximide	Zarontin	Anticonvulsants			
		Ezogabine	Potiga	Anticonvulsants			
		Felbamate	Felbatol	Anticonvulsants			
		Gabapentin	Neurontin	Anticonvulsants			
		Lacosamide	Vimpat	Anticonvulsants			
		Lamotrigine	Lamictal	Anticonvulsants			
		Levetiracetam	Keppra	Anticonvulsants			
		Oxcarbazepine	Trileptal, Oxtellar XR	Anticonvulsants			

Neurology		Peramppanel	Fycompa	Anticonvulsants			
		Pregabalin	Lyrica	Anticonvulsants			
		Rufinamide	Banzel	Anticonvulsants			
		{Stiripentol}^^	Diacomit	Anticonvulsants			
		Tiagabine	Gabitril	Anticonvulsants			
		Topiramate	Topamax	Anticonvulsants			
		Valproic Acid	Depakote, Depakene	Anticonvulsants			
		Vigabatrin	Sabril	Anticonvulsants			
		Brivaracetam	Briviact	Anticonvulsants	CYP2C19	1	
		Carbamazepine	Tegretol, Carbatrol, Eptol	Anticonvulsants	HLA-A*31:01, HLA-B*15:02	1,1	
		Eslicarbazepine Acetate	Aptiom	Anticonvulsants	HLA-B*15:02	1	
		Fosphenytoin	Cerebyx	Anticonvulsants	CYP2C9, HLA-B*15:02	1,1	Available
		Lamotrigine	Lamictal	Anticonvulsants	HLA-B*15:02	1	
		Oxcarbazepine	Trileptal, Oxtellar XR	Anticonvulsants	HLA-B*15:02	1	
		Phenobarbital	Luminal	Anticonvulsants	CYP2C19	2	
		Phenytoin	Dilantin	Anticonvulsants	CYP2C9, HLA-B*15:02	1,1	Available
	Primidone	Mysoline	Anticonvulsants	CYP2C19	2		
	Zonisamide	Zonegran	Anticonvulsants	CYP2C19	2		
Pain	No	Alfentanil	Alfenta	Opioids			
		Buprenorphine	Butrans, Buprenex	Opioids			
		Cyclobenzaprine	Flexeril, Amrix	Muscle Relaxants			
		Diclofenac	Voltaren	NSAIDs			
		Fentanyl	Actiq	Opioids			
		Hydromorphone	Dilaudid, Exalgo	Opioids			
		Indomethacin	Indocin	NSAIDs			
		Ketoprofen	Orudis	NSAIDs			
		Ketorolac	Toradol	NSAIDs			
		Levorphanol	Levo Dromoran	Opioids			
		Meperidine	Demerol	Opioids			
		Metaxalone	Skelaxin	Muscle Relaxants			
		Methocarbamol	Robaxin	Muscle Relaxants			
		Milnacipran	Savella	Fibromyalgia Agents			
		Morphine	MS Contin	Opioids			
		Nabumetone	Relafen	NSAIDs			
		Naproxen	Aleve	NSAIDs			
		Oxymorphone	Opana, Numorphan	Opioids			
	Sufentanil	Sufenta	Opioids				
	Sulindac	Clinoril	NSAIDs				
	Tapentadol	Nucynta	Opioids				
		Benzhydrocodone	Apadaz	Opioids	CYP2D6	1	
		Carisoprodol	Soma	Muscle Relaxants	CYP2C19	2	
		Celecoxib	Celebrex	NSAIDs	CYP2C9	1	Available
		Codeine	Codeine; Fioricet with Codeine	Opioids	CYP2D6	1	Available
		Dihydrocodeine	Synalgos-DC	Opioids	CYP2D6	2	
		Fentanyl	Actiq	Opioids	OPRM1	2	
		Flurbiprofen	Ansaid	NSAIDs	CYP2C9	1	
		Hydrocodone	Vicodin	Opioids	CYP2D6, OPRM1	1,2	Available
	Ibuprofen	Advil, Motrin	NSAIDs	CYP2C9	1	Available	
	{Lornoxicam}^^	Xefo	NSAIDs	CYP2C9	1		
	Meloxicam	Mobic	NSAIDs	CYP2C9	1	Available	
	Methadone	Dolophine	Opioids	CYP2B6, OPRD1	2,2		
	Yes						

		Morphine	MS Contin	Opioids	OPRM1, COMT	2,2	
		Oxycodone	Percocet, Oxycontin	Opioids	CYP2D6	1	Available
		Piroxicam	Feldene	NSAIDs	CYP2C9	1	
		Tizanidine	Zanaflex	Muscle Relaxants	CYP1A2	2	
		Tramadol	Ultram	Opioids	CYP2D6	1	Available
Pulmonology	No	Arformoterol	Brovana	Asthma/COPD			
		Indacaterol	Utibron	Asthma/COPD			
		Formoterol	Foradil, Symbicort	Asthma/COPD	ADRB2	2	Available*
	Yes	Salmeterol	Serevent, Advair	Asthma/COPD	ADRB2	2	Available*
No		Alprazolam	Xanax	Benzodiazepines			
		Asenapine	Saphris	Antipsychotics			
		Cariprazine	Vraylar	Antipsychotics			
		Clonazepam	Klonopin	Benzodiazepines			
		Clonidine	Kapvay	Anti-ADHD Agents			
		Clozapine	Clozaril	Antipsychotics			
		{Cyamemazine}^^	Tercian	Antipsychotics			
		Duloxetine	Cymbalta	Antidepressants			
		{Flupenthixol}^^	Depixol, Fluaxol	Antipsychotics			
		Fluphenazine	Prolixin	Antipsychotics			
		Guanfacine	Intuniv	Anti-ADHD Agents			
		Levomilnacipran	Fetzima	Antidepressants			
		Loxapine	Loxitane, Adasuve	Antipsychotics			
		Lurasidone	Latuda	Antipsychotics			
		Memantine	Namenda	Antidementia Agents			
		Mirtazapine	Remeron	Antidepressants			
		Olanzapine	Zyprexa	Antipsychotics			
		{Periciazine}^^	Neuleptil, Zentiva	Antipsychotics			
		Pimavanserin	Nuplazid	Antipsychotics			
		Quetiapine	Seroquel	Antipsychotics			
		Thiothixene	Navane	Antipsychotics			
		Trazodone	Oleptro	Antidepressants			
		Trifluoperazine	Stelazine	Antipsychotics			
		Vilazodone	Viibryd	Antidepressants			
		Ziprasidone	Geodon	Antipsychotics			
		Acamprosate	Campral	Antiaddictives	GRIN2B	2	
		Amitriptyline	Elavil	Antidepressants	CYP2D6, CYP2C19	1,1	Available
		Amoxapine	Amoxapine	Antidepressants	CYP2D6	2	
		Amphetamine	Adderall, Evekeo	Anti-ADHD Agents	COMT, CYP2D6	2,2	
		Aripiprazole	Abilify, Aristada	Antipsychotics	CYP2D6	1	Available
		Atomoxetine	Strattera	Anti-ADHD Agents	CYP2D6	1	Available
		Brexpiprazole	Rexulti	Antipsychotics	CYP2D6	1	
		Buprenorphine	Butrans, Buprenex	[Opioid used as Antiaddictive]	OPRD1	2	
		Bupropion	Wellbutrin, Zyban, Aplenzin, Contrave	Antiaddictives	ANKK1, CYP2B6	2,2	
		Chlorpromazine	Thorazine	Antipsychotics	CYP2D6	2	
		Citalopram	Celexa	Antidepressants	CYP2C19, GRIK4, SLC6A4, HTR2A, FKBP5	1,2,2,2,2	Available
	Clobazam	Onfi	Benzodiazepines	CYP2C19	1		
	Clomipramine	Anafranil	Antidepressants	CYP2D6, CYP2C19	1,1	Available	
	Clozapine	Clozaril	Antipsychotics	CYP1A2, HTR2A, HTR2C, MC4R	2,2,2,2		
	[Cocaine Vaccine]**		Antiaddictives	OPRK1	2		
	Desipramine	Norpramin	Antidepressants	CYP2D6	1	Available	

Psychiatry and  
Addiction Medicine

Yes

Desvenlafaxine	Pristiq	Antidepressants	CYP2D6	1	
Deutetrabenazine	Austedo	Other Neurological Agents	CYP2D6	1	
Dexmethylphenidate	Focalin	Anti-ADHD Agents	COMT, ADRA2A	2,2	
Dextroamphetamine	Dexedrine	Anti-ADHD Agents	COMT, CYP2D6	2,2	
Dextromethorphan / Quinidine	Nuedexta	Other Neurological Agents	CYP2D6	1	
Diazepam	Valium	Benzodiazepines	CYP2C19	2	
Disulfiram	Antabuse	Antiaddictives	DBH	2	
Donepezil	Aricept	Antidementia Agents	CYP2D6	2	
Doxepin	Silenor	Antidepressants	CYP2D6, CYP2C19	1,1	Available
Escitalopram	Lexapro	Antidepressants	CYP2C19, SLC6A4	1,2	Available
Flibanserin	Addyi	Other Neurological Agents	CYP2C19	1	
Fluoxetine	Prozac, Sarafem	Antidepressants	CYP2D6	1	Available
Fluvoxamine	Luvox	Antidepressants	CYP2D6, SLC6A4	1,2	Available
Galantamine	Razadyne	Antidementia Agents	CYP2D6	2	
Haloperidol	Haldol	Antipsychotics	CYP2D6	1	
Iloperidone	Fanapt	Antipsychotics	CYP2D6	1	Available
Imipramine	Tofranil	Antidepressants	CYP2D6, CYP2C19	1,1	Available
Levodopa / Carbidopa	Sinemet	[Antiparkinson Agent used as Antiaddictive]	DBH	2	
Lisdexamfetamine	Vyvanse	Anti-ADHD Agents	COMT, CYP2D6	2,2	
Lithium	Eskalith, Lithobid	Mood Stabilizers	BDNF	2	
Lofexidine	Lucremyra	Antiaddictives	CYP2D6	1	
Lorazepam	Ativan	Benzodiazepines	UGT2B15	2	
Maprotiline	Ludiomil	Antidepressants	CYP2D6	2	
Methadone	Dolophine	[Opioid used as Antiaddictive]	CYP2B6, OPRD1	2,2	
Methylphenidate	Ritalin, Aptensio XR, Concerta, Metadate ER, Quillivant ER	Anti-ADHD Agents	COMT, ADRA2A	2,2	
Naltrexone	Vivitrol, Contrave	Antiaddictives	OPRM1	2	
Nefazodone	Serzone	Antidepressants	CYP2D6	2	
Nortriptyline	Pamelor	Antidepressants	CYP2D6	1	Available
Olanzapine	Zyprexa	Antipsychotics	CYP1A2, HTR2C, MC4R	2,2,2	
Ondansetron	Zofran, Zuplenz	[Antiemetic used in Addiction Medicine]	SLC6A4	2	
Oxazepam	Serax	Benzodiazepines	UGT2B15	2	
Paliperidone	Invega	Antipsychotics	CYP2D6, MC4R	1,2	
Paroxetine	Paxil, Brisdelle	Antidepressants	CYP2D6	1	Available
Perphenazine	Trilafon	Antipsychotics	CYP2D6	1	
Pimozide	Orap	Antipsychotics	CYP2D6	1	Available
Protriptyline	Vivactil	Antidepressants	CYP2D6	2	
Quetiapine	Seroquel	Antipsychotics	MC4R	2	
Risperidone	Risperdal	Antipsychotics	CYP2D6, HTR2C, DRD2, MC4R	1,2,2,2	
Sertraline	Zoloft	Antidepressants	CYP2C19	1	Available
Tetrabenazine	Xenazine	Other Neurological Agents	CYP2D6	1	
Thioridazine	Mellaril	Antipsychotics	CYP2D6	1	
Topiramate	Topamax	[Anticonvulsant used as Antiaddictive]	GRIK1	2	
Trimipramine	Surmontil	Antidepressants	CYP2D6, CYP2C19	1,1	Available
Valbenazine	Ingrezza	Other Neurological Agents	CYP2D6	1	
Venlafaxine	Effexor	Antidepressants	CYP2D6	1	
Vortioxetine	Trintellix	Antidepressants	CYP2D6	1	
{Zuclopenthixol}^^	Clopixol	Antipsychotics	CYP2D6	1	
Apremilast	Otezla	Immunomodulators			
Colchicine	Mitigare	Anti-Hyperuricemics and Anti-Gout Agents			
Febuxostat	Uloric	Anti-Hyperuricemics and Anti-Gout Agents			

No

<b>Rheumatology</b>	Yes	Tofacitinib	Xeljanz	Immunomodulators			
		Allopurinol	Zyloprim, Liopurin, Aloprim	Anti-Hyperuricemics and Anti-Gout Agents	ABCG2, HLA-B*58:01	2,1	
		Leflunomide	Arava	Immunomodulators	CYP2C19	2	
		{Lesinurad}^^	Zurampic	Anti-Hyperuricemics and Anti-Gout Agents	CYP2C9	1	
		Pegloticase	Krystexxa	Anti-Hyperuricemics and Anti-Gout Agents	G6PD	1	
		Probenecid	Probalan	Anti-Hyperuricemics and Anti-Gout Agents	G6PD	1	
		Sulfasalazine	Azulfidine, Sulfazine	Other Antirheumatic Agents	G6PD, ABCG2	1,2	
<b>Sjogren's Syndrome</b>	Yes	Cevimeline	Evoxac	Cholinergic Agonists	CYP2D6	1	
<b>Sleep Disorder Agents</b>	Yes	Pitolisant	Wakix	Narcoleptic Agents	CYP2D6	1	
<b>Transplantation</b>	Yes	Tacrolimus	Prograf	Immunosuppressants	CYP3A5	1	Available
<b>Urologicals</b>	No	Alfuzosin	UroXtral	Alpha-Blockers			
		Avanafil	Stendra	Phosphodiesterase Inhibitors			
		Doxazosin	Cardura	Alpha-Blockers			
		Dutasteride	Avodart	5-Alpha Reductase Inhibitors			
		Finasteride	Proscar	5-Alpha Reductase Inhibitors			
		Oxybutynin	Ditropan	Antispasmodics			
		Sildenafil	Viagra	Phosphodiesterase Inhibitors			
		Silodosin	Rapaflo	Alpha-Blockers			
		Solifenacin	Vesicare	Antispasmodics			
		Tadalafil	Cialis	Phosphodiesterase Inhibitors			
		Terazosin	Hytrin	Alpha-Blockers			
		Trospium	Sanctura	Antispasmodics			
		Vardenafil	Levitra	Phosphodiesterase Inhibitors			
		Yes	Darifenacin	Enablex	Antispasmodics	CYP2D6	1
	Fesoterodine		Toviaz	Antispasmodics	CYP2D6	1	
Mirabegron	Myrbetriq		Antispasmodics	CYP2D6	1		
Tamsulosin	Flomax		Alpha-Blockers	CYP2D6	1		
Tolterodine	Detrol		Antispasmodics	CYP2D6	1		

\*\* Drug Under development, not yet FDA approved

^^ Drug is available to International Customers, where the drug is approved.

Available\* = Guidance is only available for pediatrics at this time.