

PICTURE PGX

Medications Associated with the Picture PGx DNA Test

Anesthesiology Medications (general anesthetics)

Generic Name	Brand Name(s)	Associated Gene(s)
Desflurane	Suprane	CACNA1S, RYR1
Enflurane	Ethrane, Compound 374	CACNA1S, RYR1
Halothane	Fluothane	CACNA1S, RYR1
Isoflurane	Forane, Terrell	CACNA1S, RYR1
Methoxyflurane	Penthrane	CACNA1S, RYR1
Mivacurium	Mivacron	BCHE
Sevoflurane	Ultane, Sojourn	CACNA1S, RYR1
Succinylcholine	Anectine, Quelicin	BCHE, CACNA1S, RYR1

Cardiovascular Medications

(statins, blood thinners, anti-arrhythmics, beta-blockers, cholesterol medications)

Generic Name	Brand Name(s)	Associated Gene(s)
Acenocoumarol	Ninthrome, Nicoumalone, Nitrovarfarian, Nitrowarfarin, Sintrom	CYP2C9, VKORC1
Atorvastatin	Atorvaliq, Lipitor	SLCO1B1
Clopidogrel	Plavix	CYP2C19
Flecainide	Tambocor	CYP2D6
Fluvastatin	Lescol	CYP2C9, SLCO1B1
Lovastatin	Altacor, Altoprev, Mevacor	SLCO1B1
Metoprolol	Kaspargo Sprinkle, Lopressor, Toprol-XL	CYP2D6
Pitavastatin	Livalo, Zypitamag	SLCO1B1
Pravastatin	Pravachol	SLCO1B1
Propafenone	Rythmol, Rhythmol SR	CYP2D6
Rosuvastatin	Crestor, Ezallor Sprinkle	ABCG2, SLCO1B1
Simvastatin	Zocor	SLCO1B1
Warfarin	Coumadin, Jantoven	CYP2C9, CYP2C18, VKORC1

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Gastroenterology Medications

(proton-pump inhibitors, heartburn & gastroesophageal reflux disease treatments)

Generic Name	Brand Name(s)	Associated Gene(s)
Dexlansoprazole	Dexilant, Kapidex	CYP2C19
Lansoprazole	FIRST Lansoprazole, Prevacid	CYP2C19
Omeprazole	FIRST Omeprazole, Omeprazole + SyrSpend SF Alka, Prilosec, Prilosec OTC, Zegerid (Original Formulation)	CYP2C19
Pantoprazole	Protonix	CYP2C19
Rabeprazole	AcipHex, AcipHex Sprinkle	CYP2C19

Gynecology Medications

(female health medications)

Generic Name	Brand Name(s)	Associated Gene(s)
Flibanserin	Addyi	CYP2C19

Immunology Medications

(immunosuppressants)

Generic Name	Brand Name(s)	Associated Gene(s)
Azathioprine	Azasan, Imuran	NUDT15, TPMT
Siponimod	Mayzent	CYP2C9
Tacrolimus	Astagraf XL, Envarsus XR, Hecoria, Prograf	CYP3A4

Infectious Disease Medications

(antibiotics, antifungals, antimalarials, antivirals — includes treatments for HIV)

Generic Name	Brand Name(s)	Associated Gene(s)
Abacavir	Ziagen	HLA-B
Amikacin	Amikin	MT-RNR1
Atazanavir	Reyataz	UGT1A1
Dapsone	Many brands	G6PD
Dibekacin	Panimycin	MT-RNR1
Efavirenz	Sustiva	CYP2B6
Gentamicin	Garamycin	MT-RNR1
Isoniazid	Nydrazid	NAT2
Kanamycin	Kantrex	MT-RNR1
Neomycin	Neo-Fradin	MT-RNR1

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Infectious Disease Medications Cont.

(antibiotics, antifungals, antimalarials, antivirals — includes treatments for HIV)

Generic Name	Brand Name(s)	Associated Gene(s)
Netilmicin	Netromycin	MT-RNR1
Nevirapine	Viramune, Viramune XR	CYP2B6
Nitrofurantoin	Macrobid, Macrochantin	G6PD
Paromomycin	Humatin	MT-RNR1
Peginterferon Alfa-2A	Pegasys, Pegasys ProClick Autoinjector, Pegasys Prefilled Syringe	IFNL4
Peginterferon Alfa-2B	PegIntron, PegIntron Redipen, Sylatron	IFNL4
Plazomicin	Zemdri	MT-RNR1
Primaquine	Many brands	G6PD
Ribavirin	Copegus, Moderiba, Rebetol, RibaPak, Ribasphere, RibaTab	IFNL4
Ribostamycin	Vistamycin	MT-RNR1
Streptomycin	Many brands	MT-RNR1
Tafenoquine	Arakoda	G6PD
Tobramycin	Nebcin	MT-RNR1
Voriconazole	Vfend	CYP2C19

Neurology Medications

(anticonvulsants, muscle relaxants, movement disorder treatments)

Generic Name	Brand Name(s)	Associated Gene(s)
Amifampridine	Firdapse, Ruzurgi	NAT2
Amifampridine Phosphate	Firdapse	NAT2
Brivaracetam	Briviact	CYP2C19
Carbamazepine	Carbatrol, Epitol, Equetro, Tegretol, Tegretol XR	HLA-A, HLA-B
Clobazam	Onfi, Sympazan	CYP2C19
Deutetrabenazine	Austedo	CYP2D6
Fosphenytoin	Cerebyx, Sesquient	CYP2C9, HLA-B
Oxcarbazepine	Oxtellar XR, Trileptal	HLA-B
Phenytoin	Dilantin, Phenytek	CYP2C9, HLA-B
Tetrabenazine	Xenazine	CYP2D6
Valbenazine	Ingrezza	CYP2D6

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Oncology Medications

(chemotherapies, antineoplastic agents, other cancer treatment drugs)

Generic Name	Brand Name(s)	Associated Gene(s)
Belinostat	Beleodaq	UGT1A1
Belzutifan	Welireg	CYP2C19
Capecitabine	Xeloda	DPYD
Dronabinol	Marinol, Syndros	CYP2C9
Erdafitinib	Balversa	CYP2C9
Fluoruracil	Adrucil	DPYD
Gefitinib	Iressa	CYP2D6
Irinotecan	Camptosar	UGT1A1
Mercaptopurine	Purinethol, Purixan	NUDT15, TPMT
Metoclopramide	Reglan	CYP2D6
Ondansetron	Zofran, Zofran ODR, Zuplenz	CYP2D6
Rasburicase	Elitek, Fasturtec	G6PD
Sacituzumab Govitecan-hziy	Trodelvy	UGT1A1
Tamoxifen	Nolvadex	CYP2D6
Tegafur	Futraful	DPYD
Thioguanine	Tabloid	NUDT15, TPMT
Tropisetron	Navoban	CYP2D6

Pain Management Medications

(anti-inflammatory drugs, opioids, and others)

Generic Name	Brand Name(s)	Associated Gene(s)
Celecoxib	Celebrex	CYP2C9
Codeine	Many brands (often combined)	CYP2D6
Fentanyl	Duragesic, Sublimaze	CYP3A4
Flurbiprofen	Ansaid	CYP2C9
	Hysingla ER, Zohydro ER	
Hydrocodone	Hydrocodone is also present in the following drug combinations (not an exhaustive list): Allay, Bancap HC, Hycodan, Lorcet, Lortab, Norco, Reprexain, Tussionex, Vicodin, Vicoprofen, Zutripro, Zydone	CYP2D6
Ibuprofen	Advil, Genpril, IBU, Midol IB, Motrin IB, Proprinal	CYP2C9
Lofexidine	Lucemyra	CYP2D6
Lornoxicam	Acabel, Lorcam, Xafon, Xefo	CYP2C9
Meloxicam	Anjeso, Mobic, Qmiiz OD, Vivlodex	CYP2C9

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Pain Management Medications cont.

(anti-inflammatory drugs, opioids, and others)

Generic Name	Brand Name(s)	Associated Gene(s)
Methadone	Dolophine, Methadose, Methatab	CYP2B6
Oliceridine	Olinvyk	CYP2D6
	Oxaydo, OxyContin, Oxyfast, Roxicodone, RoxyBond, Xtampza ER	
Oxycodone	Oxycodone is also present in the following combination drugs: Combunox, Endocet, Endodan, Moxduo, Oxycodan, Percocet, Percodan, Primlev, Roxicet, Xartemis XR, and others	CYP2D6
Piroxicam	Feldene	CYP2C9
Tenoxicam	Mobiflex	CYP2C9

Psychiatry Medications

(antidepressants, selective serotonin reuptake inhibitors, antipsychotics)

Generic Name	Brand Name(s)	Associated Gene(s)
Amitriptyline	Elavil, Endep, Vanatrip	CYP2C19, CYP2D6
Aripiprazole	Abilify, Abilify Discmelt	CYP2D6
Aripiprazole Lauroxil	Aristada, Aristada Initio	CYP2D6
Atomoxetine	Strattera	CYP2D6
Brexipiprazole	Rexulti	CYP2D6
Bupropion	Aplenzin, Budeprion XL, Forfivo XL, Wellbutrin SR, Wellbutrin XL, Zyban	CYP2B6
Citalopram	Celexa	CYP2C19
Clomipramine	Anafranil	CYP2C19, CYP2D6
Clozapine	Clozaril, Fazaclo, Versacloz, Clopine, Clozapine Synthon, Denzapine, Zaponex	CYP2D6
Desipramine	Norpramin	CYP2D6
Doxepin	Prudoxin, Sinequan, Zonalon	CYP2C19, CYP2D6
Escitalopram	Lexapro	CYP2C19
Fluvoxamine	Luvox, Luvox CR	CYP2D6
Haloperidol	Haldol	CYP2D6
Iloperidone	Fanapt	CYP2D6
Imipramine	Tofranil, Tofranil-PM	CYP2C19, CYP2D6
Mirtazapine	Remeron	CYP2D6
Nortriptyline	Aventyl HCl, Pamelor	CYP2D6

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Psychiatry Medications cont.

(antidepressants, selective serotonin reuptake inhibitors, antipsychotics)

Generic Name	Brand Name(s)	Associated Gene(s)
Paroxetine	Brisdelle, Paxil, Paxil CR, Pexeva	CYP2D6
Pimozide	Orap	CYP2D6
Quetiapine	Seroquel	CYP3A4
Risperidone	Risperdal	CYP2D6
Sertraline	Zoloft	CYP2B6, CYP2C19
Thioridazine	Mellaril, Mellaril-S	CYP2D6
Trimipramine	Surmontil	CYP2C19, CYP2D6
Venlafaxine	Effexor, Effexor-XR	CYP2D6
Vortioxetine	Brintellix, Trintellix	CYP2D6

Other Medications

(anti-nausea & anti-emetics, potassium channel blockers, and others)

Generic Name	Brand Name(s)	Associated Gene(s)
Abrocitinib	Cibinqo	CYP2C19
Allopurinol	Zyloprim	ABCG2, HLA-B
Amphetamine	Adderall	CYP2D6
Eliglustat	Cerdelga	CYP2D6
Meclizine	Antivert, Bonine, D-Vert, Dramamine Less Drowsy, Driminate II, Meclicot, Medivert, Ru-Vert-M, Meni-D	CYP2D6
Methylene Blue	Proveblue	G6PD
Nateglinide	Starlix	CYP2C9
Pegloticase	Krystexxa	G6PD
Pitolisant	Wakix	CYP2D6
Toluidine Blue	-	G6PD