

# Summary of Medications with PGx Alerts in YouScript - Sorted by Specialty

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**NOTE: Interactions may increase in severity depending on patient's full genetic profile and medication regimen.**

Drug	Gene	Clinical Impact	Guidelines			
			CPIC	DPWG	FDA	Other
amitriptyline (Elavil)	CYP2D6	Major	X	X		
amitriptyline (Elavil)	CYP2C19	Moderate	X			
amoxapine	CYP2D6	Major	X			
aripiprazole (Abilify)	CYP2D6	Moderate		X	X	
atomoxetine (Strattera)	CYP2D6	Moderate			X	
brexipiprazole (Rexulti)	CYP2D6	Moderate			X	
bupropion (Wellbutrin)	CYP2B6	Minor				
citalopram (Celexa)	CYP2C19	Major	X	X	X	
citalopram (Celexa)	GRIK4	Minor				
clomipramine (Anafranil)	CYP2D6	Major	X	X		
clomipramine (Anafranil)	CYP2C19	Moderate	X			
clozapine (Clozaril)	CYP2C19	Minor				
desipramine (Norpramin)	CYP2D6	Major	X			
diazepam (Valium)	CYP2C19	Minor				
doxepin (Silenor)	CYP2D6	Major	X	X		
doxepin (Silenor)	CYP2C19	Moderate	X			
duloxetine (Cymbalta)	CYP2D6	Minor				
escitalopram (Lexapro)	CYP2C19	Major	X	X		
fluoxetine (Prozac)	CYP2D6	Minor				
fluoxetine (Prozac)	CYP2C19	Minor				
fluvoxamine (Luvox)	CYP2D6	Moderate	X			
haloperidol (Haldol)	CYP2D6	Moderate		X		
iloperidone (Fanapt)	CYP2D6	Moderate			X	
imipramine (Tofranil)	CYP2D6	Major	X	X		
imipramine (Tofranil)	CYP2C19	Major	X	X		
maprotiline	CYP2D6	Minor				
nefazodone (Serzone)	CYP2D6	Minor				
nortriptyline (Pamelor)	CYP2D6	Major	X	X		
paroxetine (Paxil)	CYP2D6	Major	X	X		
perphenazine (Etrafon)	CYP2D6	Moderate				X
pimozide (Orap)	CYP2D6	Moderate			X	
protriptyline (Vivactil)	CYP2D6	Minor				
risperidone (Risperdal)	CYP2D6	Moderate				X
sertraline (Zoloft)	CYP2C19	Moderate	X	X		
thioridazine (Mellaril)	CYP2D6	Major			X	
trazodone (Oleptro)	CYP2D6	Minor				
trimipramine (Surmontil)	CYP2D6	Major	X			
trimipramine (Surmontil)	CYP2C19	Major	X			
venlafaxine (Effexor)	CYP2D6	Moderate		X		
venlafaxine (Effexor)	CYP2C19	Minor				
vortioxetine (Trintellix/Brintellix)	CYP2D6	Moderate			X	

Drug	Gene	Clinical Impact	Guidelines			
			CPIC	DPWG	FDA	Other
atorvastatin (Lipitor)	SLCO1B1	Moderate				X
carvedilol (Coreg)	CYP2D6	Minor				
cilostazol (Pletal)	CYP2C19	Moderate			X	
clopidogrel (Plavix)	CYP2C19	Major	X	X		
ezetimibe (Zetia)	UGT1A1	Minor				
flecainide (Tambocor)	CYP2D6	Moderate		X		
fluvastatin (Lescol)	CYP2C9	Minor				
irbesartan (Avapro)	CYP2C9	Minor				
losartan (Cozaar)	CYP2C9	Minor				
metoprolol (Lopressor)	CYP2D6	Moderate		X		
mexiletine	CYP2D6	Minor				
nifedipine (Procardia)	CYP3A5	Minor				
pitavastatin (Livalo)	SLCO1B1	Moderate				X
pravastatin (Pravachol)	SLCO1B1	Moderate				X
propafenone (Rythmol)	CYP2D6	Moderate		X		
rosuvastatin (Crestor)	SLCO1B1	Moderate				X
simvastatin (Zocor)	SLCO1B1	Moderate	X			X
timolol (Timoptic)	CYP2D6	Minor				
torsemide (Demadex)	CYP2C9	Minor				
warfarin (Coumadin)	CYP2C9	Moderate	X		X	
warfarin (Coumadin)	VKORC1	Moderate	X		X	
carisoprodol (Soma)	CYP2C19	Minor				
celecoxib (Celebrex)	CYP2C9	Moderate			X	
codeine (Tylenol 3)	CYP2D6	Major	X	X	X	X
diclofenac (Voltaren)	CYP2C9	Minor				
dihydrocodeine (Synalgos-DC)	CYP2D6	Major			X	
flurbiprofen (Ansaid)	CYP2C9	Minor				
hydrocodone (Vicodin)	CYP2D6	Minor				
ibuprofen (Advil, Motrin)	CYP2C9	Minor				
meloxicam (Mobic)	CYP2C9	Minor				
methadone (Methadose)	CYP2B6	Minor				
naproxen (Naprosyn, Aleve)	CYP2C9	Minor				
oxycodone (Oxycontin)	CYP2D6	Minor				
phenazopyridine (Pyridium)	G6PD	Minor				
piroxicam (Feldene)	CYP2C9	Minor				
tramadol (Ultram)	CYP2D6	Major		X		

Cardiology

Pain

See last page for key regarding abbreviations used throughout this chart.

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	Drug	Gene	Clinical Impact	Guidelines				
				CPIC	DPWG	FDA	Other	
<b>Endocrinology</b>	chlorpropamide	G6PD	Major			X		
	gliclazide (Diamicon)	G6PD	Major			X		
	glimepiride (Amaryl)	G6PD	Major			X		
	glipizide (Glucotrol)	G6PD	Major			X		
	glyburide (DiaBeta)	G6PD	Major			X		
	repaglinide (Prandin)	SLCO1B1	Minor				X	
	tolazamide (Tolinase)	G6PD	Major			X		
	tolbutamide (Orinase)	G6PD	Major			X		
	<b>Gastroenterology</b>	dexlansoprazole (Dexilant)	CYP2C19	Minor				
esomeprazole (Nexium)		CYP2C19	Moderate		X			
lansoprazole (Prevacid)		CYP2C19	Moderate		X			
mesalamine (Asacol)		G6PD	Minor					
omeprazole (Prilosec)		CYP2C19	Moderate		X			
ondansetron (Zofran)		CYP2D6	Minor					
pantoprazole (Protonix)		CYP2C19	Moderate		X			
PEG-3350 (GoLYTELY)		G6PD	Minor					
rabeprazole (Aciphex)		CYP2C19	Minor				X	
sulfasalazine (Azulfidine)		G6PD	Minor					
sulfasalazine (Azulfidine)		NAT2	Minor					
<b>Neurology</b>		brivaracetam (Briviact)	CYP2C19	Minor				
		carbamazepine (Tegretol)	HLA-A	Major				X
	carbamazepine (Tegretol)	HLA-B	Major	X		X	X	
	clobazam (Onfi)	CYP2C19	Moderate			X		
	donepezil (Aricept)	CYP2D6	Minor					
	eslicarbazepine (Aptiom)	HLA-B	Minor					
	fosphenytoin (Cerebyx)	HLA-B	Major			X		
	galantamine (Razadyne)	CYP2D6	Minor					
	lamotrigine (Lamictal)	HLA-B	Minor					
	oxcarbazepine (Trileptal)	HLA-B	Minor					
	phenobarbital (Luminal)	HLA-B	Minor					
	phenytoin (Dilantin)	CYP2C9	Moderate	X	X			
	phenytoin (Dilantin)	CYP2C19	Moderate				X	
	phenytoin (Dilantin)	HLA-B	Major			X		
	primidone (Mysoline)	HLA-B	Minor					
	tetrabenazine (Xenazine)	CYP2D6	Moderate			X		

	Drug	Gene	Clinical Impact	Guidelines			
				CPIC	DPWG	FDA	Other
<b>Infectious Diseases</b>	abacavir (Ziagen)	HLA-B	Major	X	X	X	
	atazanavir (Reyataz)	UGT1A1	Major	X			
	chloramphenicol (Chloromycetin)	G6PD	Minor				
	chloroquine (Aralen)	G6PD	Minor				
	ciprofloxacin (Cipro)	G6PD	Minor				
	dapsone (Aczone)	G6PD	Minor				
	dolutegravir (Tivicay)	UGT1A1	Minor				
	efavirenz (Sustiva)	CYP2B6	Moderate				X
	gemifloxacin (Factive)	G6PD	Minor				
	hydroxychloroquine (Plaquenil)	G6PD	Minor				
	indinavir (Crixivan)	UGT1A1	Minor				
	isoniazid	NAT2	Minor				
	levofloxacin (Levaquin)	G6PD	Minor				
	mafenide (Sulfamylon)	G6PD	Minor				
	moxifloxacin (Avelox)	G6PD	Minor				
	nalidixic acid (NegGram)	G6PD	Minor				
	nelfinavir (Viracept)	CYP2C19	Minor				
	nevirapine (Viramune)	CYP2B6	Minor				
	nitrofurantoin (Macrobid)	G6PD	Minor				
	norfloxacin (Noroxin)	G6PD	Minor				
	ofloxacin	G6PD	Minor				
	PEG IFN alpha	IFNL3	Minor				
	primaquine	G6PD	Minor				
	proguanil (Malarone)	CYP2C19	Minor				
	quinine (Qulaquin)	G6PD	Major				X
	sulfamethoxazole (Bactrim)	NAT2	Minor				
	SMX/TPM (Bactrim)	G6PD	Minor				
	voriconazole (Vfend)	CYP2C19	Minor				

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Drug	Gene	Clinical Impact	Guidelines			
			CPIC	DPWG	FDA	Other
allopurinol (Zyloprim)	HLA-B	Major	X			X
azathioprine (Azasan, Imuran)	TPMT	Major	X	X	X	
cevimeline (Evoxac)	CYP2D6	Minor				
chlorpheniramine (Chlor-Trimeton)	CYP2D6	Minor				
cyclosporine (Neoral)	CYP3A4	Minor				
darifenacin (Enablex)	CYP2D6	Minor				
dextromethorphan (Nuedexta)	CYP2D6	Minor				
dimercaprol (BAL in Oil)	G6PD	Minor				
eliglustat (Cerdelga)	CYP2D6	Major			X	
estrogen-containing HRT	F5	Moderate				X
estrogen-containing HRT	F2	Moderate				X
estrogen-containing OCs	F5	Major		X		X
estrogen-containing OCs	F2	Moderate				X
fesoterodine (Toviaz)	CYP2D6	Minor				
flibanserin (Addyi)	CYP2C19	Minor				
ivacaftor (Kalydeco)	CFTR	Major	X		X	
lesinurad (Zurampic)	CYP2C9	Minor				
methotrexate (Trexall)	SLCO1B1	Minor				
methylene blue	G6PD	Major			X	
pegloticase (Krystexxa)	G6PD	Major			X	
probenecid	G6PD	Minor				
quazepam (Doral)	CYP2C19	Minor				
sodium nitrite	G6PD	Major			X	
tacrolimus (Prograf)	CYP3A5	Moderate	X			
tamsulosin (Flomax)	CYP2D6	Moderate			X	
thrombosis-causing drugs	F5	Minor				
thrombosis-causing drugs	F2	Minor				
tolterodine (Detrol)	CYP2D6	Minor				

Miscellaneous

Drug	Gene	Clinical Impact	Guidelines			
			CPIC	DPWG	FDA	Other
belinostat (Beleodaq)	UGT1A1	Moderate			X	
capecitabine (Xeloda)	DPYD	Major	X	X	X	
cisplatin (Platinol)	TPMT	Minor				
cyclophosphamide	CYP2B6	Minor				
dabrafenib (Tafinlar)	G6PD	Minor				
dronabinol (Marinol)	CYP2C9	Minor				
erlotinib (Tarceva)	UGT1A1	Minor				
fluorouracil (Adrucil, Efudex)	DPYD	Major	X	X	X	
gefitinib (Iressa)	CYP2D6	Minor				
irinotecan (Camptosar)	UGT1A1	Moderate		X	X	X
irinotecan (Camptosar)	SLCO1B1	Minor				
mercaptopurine (Purixan)	TPMT	Major	X	X	X	
mitotane (Lysodren)	CYP2B6	Minor				
nilotinib (Tasigna)	UGT1A1	Minor				
pazopanib (Votrient)	UGT1A1	Minor				
rasburicase (Elitek)	G6PD	Major	X		X	
regorafenib (Stivarga)	UGT1A1	Minor				
sorafenib (Nexavar)	UGT1A1	Minor				
tamoxifen (Nolvadex)	CYP2D6	Major		X		
thalidomide (Thalomid)	CYP2C19	Minor				
thioguanine (Tabloid)	TPMT	Major	X	X	X	

Oncology

### Chart Key

HRT: hormone replacement therapy  
 OCs: oral contraceptives  
 PEG 3350: polyethylene glycol 3350  
 PEG IFN: peginterferon  
 SMX/TPM: sulfamethoxazole/trimethoprim  
 CPIC: Clinical Pharmacogenetics Implementation Consortium  
 DPWG: Dutch Pharmacogenetics Working Group  
 FDA: Food and Drug Administration  
 Other: Professional society or guideline