

## Pharmacogenetic (PGx) Testing Medications List

MEDICATION	GENE(S) INVOLVED		
<b>PSYCHOTROPICS</b>			
<b>ANTI-ADHD</b>			
Atomoxetine	CYP2D6	✓	✓
Clonidine	Multi-gene algorithm		✓
Dextroamphetamine	Multi-gene algorithm		✓
Guanfacine	Multi-gene algorithm		✓
Lisdexamfetamine	Multi-gene algorithm		✓
Methylphenidate	Multi-gene algorithm		✓
Modafinil	Multi-gene algorithm		✓
Viloxazine	CYP2D6	✓	✓
<b>ANTI-DEMENTIA</b>			
Donepezil	CYP2D6	✓	✓
<b>ANTIDEPRESSANTS</b>			
Agomelatine	Multi-gene algorithm		✓
Amitriptyline	CYP2C19, CYP2D6	✓	✓
Bupropion	Multi-gene algorithm		✓
Citalopram	CYP2C19	✓	✓
Clomipramine	CYP2C19, CYP2D6	✓	✓
Desipramine	CYP2C19, CYP2D6	✓	✓
Desvenlafaxine	Multi-gene algorithm		✓
Dothiepin	Multi-gene algorithm		✓
Doxepin	CYP2D6	✓	✓
Duloxetine	Multi-gene algorithm		✓
Escitalopram	CYP2C19	✓	✓
Fluoxetine	Multi-gene algorithm		✓
Fluvoxamine	CYP2D6	✓	✓
Imipramine	CYP2C19, CYP2D6	✓	✓
Levomilnacipran	Multi-gene algorithm		✓
Mianserin	Multi-gene algorithm		✓
Milnacipran	Multi-gene algorithm		✓
Mirtazapine	Multi-gene algorithm		✓
Moclobemide	Multi-gene algorithm		✓
Nortriptyline	CYP2D6	✓	✓
Paroxetine	CYP2D6	✓	✓
Protriptyline	CYP2D6	✓	✓
Reboxetine	Multi-gene algorithm		✓
Sertraline	CYP2C19, CYP2B6	✓	✓
Trazodone	Multi-gene algorithm		✓
Trimipramine	CYP2C19, CYP2D6	✓	✓
Venlafaxine	CYP2D6	✓	✓
Vilazodone	Multi-gene algorithm		✓
Vortioxetine	CYP2D6	✓	✓
<b>ANTIPSYCHOTICS</b>			
Amisulpride	Multi-gene algorithm		✓
Aripiprazole	CYP2D6	✓	✓
Asenapine	Multi-gene algorithm		✓
Brexpiprazole	CYP2D6	✓	✓
Cariprazine	Multi-gene algorithm		✓

MEDICATION	GENE(S) INVOLVED		
Chlorpromazine	Multi-gene algorithm		✓
Clozapine	Multi-gene algorithm		✓
Haloperidol	CYP2D6	✓	✓
Iloperidone	CYP2D6	✓	✓
Lurasidone	Multi-gene algorithm		✓
Olanzapine	Multi-gene algorithm		✓
Paliperidone	Multi-gene algorithm		✓
Perphenazine	CYP2D6	✓	✓
Pimozide	CYP2D6	✓	✓
Quetiapine	CYP3A4	✓	✓
Risperidone	CYP2D6	✓	✓
Thioridazine	CYP2C9	✓	✓
Ziprasidone	Multi-gene algorithm		✓
Zuclopenthixol	CYP2D6	✓	✓
<b>ANXIOLYTICS &amp; HYPNOTICS</b>			
Alprazolam	Multi-gene algorithm		✓
Bromazepam	Multi-gene algorithm		✓
Buspirone	Multi-gene algorithm		✓
Clobazam	CYP2C19	✓	✓
Clonazepam	Multi-gene algorithm		✓
Diazepam	CYP2C19	✓	✓
Diphenhydramine	Multi-gene algorithm		✓
Flunitrazepam	Multi-gene algorithm		✓
Melatonin	Multi-gene algorithm		✓
Midazolam	Multi-gene algorithm		✓
Nitrazepam	Multi-gene algorithm		✓
Propranolol	CYP2D6	✓	✓
Suvorexant	Multi-gene algorithm		✓
Temazepam	Multi-gene algorithm		✓
Zolpidem	Multi-gene algorithm		✓
Zopiclone	Multi-gene algorithm		✓
<b>MOOD STABILISERS/ANTICONVULSANTS</b>			
Brivaracetam	CYP2C19	✓	✓
Carbamazepine	Multi-gene algorithm		✓
Lamotrigine	Multi-gene algorithm		✓
Oxcarbazepine	Multi-gene algorithm		✓
Perampanel	Multi-gene algorithm		✓
Phenytoin	CYP2C9	✓	✓
Rufinamide	Multi-gene algorithm		✓
Topiramate	Multi-gene algorithm		✓
Valproic Acid	Multi-gene algorithm		✓
<b>OTHER PSYCHOTROPICS</b>			
Amphetamine	CYP2D6	✓	✓
Bromocriptine	Multi-gene algorithm		✓
Cabergoline	Multi-gene algorithm		✓
Dapoxetine	Multi-gene algorithm		✓
Deutetrabenazine	CYP2D6	✓	✓
Disulfiram	Multi-gene algorithm		✓

MEDICATION	GENE(S) INVOLVED		
Galantamine	CYP2D6	✓	✓
Naloxone	Multi-gene algorithm		✓
Naltrexone	Multi-gene algorithm		✓
Nicotine	Multi-gene algorithm		✓
Rasagiline	Multi-gene algorithm		✓
Ropinirole	Multi-gene algorithm		✓
Rotigotine	Multi-gene algorithm		✓
Selegiline	Multi-gene algorithm		✓

## NON-PSYCHOTROPICS

### ANTIARRHYTHMICS

Flecainide	CYP2D6	✓	✓
Propafenone	CYP2D6	✓	✓

### ANTICOAGULANTS

Acenocoumarol	CYP2C9, VKORC1	✓	✓
Warfarin	CYP2C9, VKORC1	✓	✓

### ANTIDIABETIC

Nateglinide	CYP2C9	✓	✓
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### ANTIFUNGALS

Flucytosine	DPYD		✓
Voriconazole	CYP2C19	✓	✓

### ANTI-NAUSEA

Dronabinol	CYP2C9	✓	✓
Metoclopramide	CYP2D6	✓	✓
Ondansetron	CYP2D6	✓	✓
Tropisetron	CYP2D6	✓	✓

### ANTIPLATELET

Clopidogrel	CYP2C19	✓	✓
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### ANTIVIRALS

Atazanavir	UGT1A1		✓
Dolutegravir	UGT1A1		✓
Efavirenz	CYP2B6		✓
Raltegravir	UGT1A1		✓

### BETA BLOCKERS

Carvedilol	CYP2D6	✓	✓
Metoprolol	CYP2D6	✓	✓
Nebivolol	CYP2D6	✓	✓

### IMMUNOSUPPRESSANTS

Azathioprine	TPMT, NUDT15		✓
Tacrolimus	CYP3A5	✓	✓

### NSAIDS

Celecoxib	CYP2C9	✓	✓
Flurbiprofen	CYP2C9	✓	✓
Ibuprofen	CYP2C9	✓	✓
Lornoxicam	CYP2C9	✓	✓
Meloxicam	CYP2C9	✓	✓
Piroxicam	CYP2C9	✓	✓
Tenoxicam	CYP2C9	✓	✓

### ONCOLOGY/ANTINEOPLASTIC

Belinostat	UGT1A1		✓
Belzutifan	CYP2C19	✓	✓
Capecitabine	DPYD		✓
Erdafitinib	CYP2C9	✓	✓

MEDICATION	GENE(S) INVOLVED		
Fluorouracil	DPYD		✓
Gefitinib	CYP2D6	✓	✓
Irinotecan	UGT1A1		✓
Mercaptopurine	TPMT, NUDT15		✓
Nilotinib	UGT1A1		✓
Sacituzumab Govitecan	UGT1A1		✓
Tamoxifen	CYP2D6	✓	✓
Tegafur	DPYD		✓
Thioguanine	TPMT, NUDT15		✓

### OPIOID ANALGESIC

Codeine	CYP2D6	✓	✓
Hydrocodone	CYP2D6	✓	✓
Oliceridine	CYP2D6	✓	✓
Tramadol	CYP2D6	✓	✓

### PROTON PUMP INHIBITORS

Dexlansoprazole	CYP2C19	✓	✓
Esomeprazole	CYP2C19	✓	✓
Lansoprazole	CYP2C19	✓	✓
Omeprazole	CYP2C19	✓	✓
Pantoprazole	CYP2C19	✓	✓
Rabeprazole	CYP2C19	✓	✓

### STATINS

Atorvastatin	SLCO1B1	✓	✓
Fluvastatin	CYP2C9, SLCO1B1	✓	✓
Lovastatin	SLCO1B1	✓	✓
Pitavastatin	SLCO1B1	✓	✓
Pravastatin	SLCO1B1	✓	✓
Rosuvastatin	SLCO1B1, ABCG2	✓	✓
Simvastatin	SLCO1B1	✓	✓

### OTHERS

Abrocitinib	CYP2C19	✓	✓
Allopurinol	ABCG2		✓
Avatrombopag	CYP2C9	✓	✓
Carisoprodol	CYP2C19	✓	✓
Cevimeline	CYP2D6	✓	✓
Elagolix	SLCO1B1	✓	✓
Eliglustat	CYP2D6	✓	✓
Fesoterodine	CYP2D6	✓	✓
Flibanserin	CYP2C19	✓	✓
Lofexidine	CYP2D6	✓	✓
Mavacamten	CYP2C19	✓	✓
Meclizine	CYP2D6	✓	✓
Mirabegron	CYP2D6	✓	✓
Pazopanib	UGT1A1		✓
Pitolisant	CYP2D6	✓	✓
Siponimod	CYP2C9	✓	✓
Tamsulosin	CYP2D6	✓	✓
Tetrabenazine	CYP2D6	✓	✓
Tolterodine	CYP2D6	✓	✓
Valbenazine	CYP2D6	✓	✓