

RightMed® pharmacogenomic drug list

The OneOme RightMed PGx test is a provider-ordered comprehensive pharmacogenomic test of 22-genes that covers more than 340 prescription medications. These medications are used for treating common medical indications:

Acute migraine, Allergies, Alzheimer's disease, Anticoagulation, Antiplatelet therapy, Arrhythmias, Bacterial infection, Benign prostatic hyperplasia, Cancer, Chronic hepatitis C, Depression/anxiety, Diabetes, Fungal infection, Gastroesophageal reflux disease, Gout, HIV infection, Hypercholesterolemia, Hypertension, Immunosuppression, Migraine prophylaxis, Overactive bladder, Pain, Parkinson's disease, Psychosis, Rheumatoid arthritis, Seizure, Sleep disorders, Smoking cessation

GENOTYPE-DERIVED DRUGS

The following tables list drugs that will be binned according to an individual patient's genotype and the drug interaction determined by the RightMed PGx test. Binning consists of major, moderate, and minimal gene-drug interactions.

<p>ALLERGY</p> <p>Loratadine</p> <p>ANALGESIC / ANESTHESIOLOGY</p> <p>Alfentanil Buprenorphine Carisoprodol Codeine* Cyclobenzaprine Fentanyl Hydrocodone Methadone Midazolam Oxycodone Tramadol*</p> <p>ANTI-INFLAMMATORY</p> <p>Celecoxib Diclofenac Flurbiprofen Meloxicam Piroxicam</p> <p>ANTICOAGULANT / ANTIPLATELET</p> <p>Apixaban Cilostazol Clopidogrel* Ticagrelor Warfarin</p> <p>CARDIOVASCULAR</p> <p>Aliskiren Amiodarone Amlodipine Atorvastatin Azilsartan** Carvedilol Clonidine Diltiazem Disopyramide Dofetilide Dronedaron Eplerenone Felodipine Flecainide Fluvastatin Guanabenz Irbesartan Labetalol</p>	<p>Lidocaine Lomitapide Losartan Lovastatin Metoprolol Nifedipine Nisoldipine Pravastatin Procainamide Propafenone Propranolol Quinidine Ranolazine Simvastatin Timolol Verapamil</p> <p>DIETARY</p> <p>Caffeine</p> <p>ENDOCRINOLOGY</p> <p>Chlorpropamide Ethinyl estradiol Glimepiride Glipizide Glyburide Nateglinide Tolbutamide</p> <p>GASTROENTEROLOGY</p> <p>Aprepitant Dexlansoprazole Dolasetron Esomeprazole Lansoprazole Omeprazole Ondansetron Pantoprazole Rabeprazole</p> <p>GENETIC DISEASE</p> <p>Eliglustat Ivacaftor</p> <p>IMMUNOSUPPRESSION</p> <p>Azathioprine** Cyclosporine Everolimus Sirolimus Tacrolimus</p>	<p>INFECTIOUS DISEASE</p> <p>Atazanavir Atovaquone/Proguanil* Clarithromycin Darunavir Delavirdine Efavirenz Erythromycin Fosamprenavir** Indinavir Isavuconazole** Itraconazole Ivermectin Ketoconazole Maraviroc Mefloquine Nelfinavir Nevirapine Peginterferon alfa-2a-containing regimens Peginterferon alfa-2b-containing regimens Quinidine Quinine Ritonavir Saqueinavir Simeprevir Telithromycin Terbinafine Tipranavir Voriconazole</p> <p>NEUROLOGY</p> <p>Brivaracetam Clobazam Dextromethorphan/ Quinidine Donepezil Eletriptan Ethosuximide Frovatriptan Nicotine Rasagiline Tetrabenazine Zonisamide</p> <p>ONCOLOGY</p> <p>Axitinib Belinostat Bortezomib Bosutinib Brentuximab vedotin Cabazitaxel Capecitabine**</p>	<p>Crizotinib Dasatinib Docetaxel Enzalutamide Erlotinib Etoposide Everolimus Exemestane Fluorouracil** Gefitinib Ifosfamide* Imatinib Irinotecan Ixabepilone Lapatinib Mercaptopurine** Methotrexate Nilotinib Paclitaxel Pazopanib Ponatinib Regorafenib Ruxolitinib Sorafenib Sunitinib Tamoxifen* Temsilolimus Teniposide Thioguanine** Trabectedin Vemurafenib Vincristine Vinorelbine</p> <p>PSYCHIATRY</p> <p>Alprazolam Amitriptyline Aripiprazole Asenapine Atomoxetine Brexipiprazole Bupropion Buspirone Citalopram Clomipramine Clozapine Desipramine Diazepam Doxepin Duloxetine Escitalopram Flibanserin Fluoxetine Fluvoxamine Haloperidol</p>	<p>Iloperidone Imipramine Levomilnacipran Lurasidone Mirtazapine Nefazodone Nortriptyline Olanzapine Paroxetine Perphenazine Pimozide Protriptyline Quetiapine Risperidone Sertraline Thioridazine Trazodone Trimipramine Venlafaxine Vilazodone Vortioxetine</p> <p>PULMONARY</p> <p>Dextromethorphan Indacaterol Salmeterol Sildenafil Tadalafil</p> <p>RHEUMATOLOGY</p> <p>Cevimeline Colchicine Methotrexate Tofacitinib</p> <p>SLEEP MEDICINE</p> <p>Armodafinil Eszopiclone Modafinil Ramelteon Triazolam Zolpidem</p> <p>UROLOGY</p> <p>Darifenacin Fesoterodine** Finasteride Oxybutynin Sildenafil Tadalafil Tamsulosin Tolterodine Vardenafil</p>
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*CYP ACTIVATED PRODRUGS: These drugs must be metabolized by CYP enzymes into their pharmacologically active form.

**NON-CYP ACTIVATED PRODRUGS: These drugs are converted to their pharmacologically active form through processes independent of CYP involvement.

IMPACT OF METABOLIC STATUS ON DRUG ACTIVITY

METABOLIC STATUS	PRODRUGS	ACTIVE DRUGS
Rapid and ultrarapid metabolizers	May cause side effects or toxicity	May lack efficacy
Normal metabolizers	Presumed normal level of drug activity	Presumed normal level of drug activity
Intermediate metabolizers	May have reduced efficacy	May cause side effects or toxicity
Poor metabolizers	May lack efficacy	May cause side effects or toxicity

DRUGS WITH LIMITED GENETIC IMPACT

Pharmacogenomic testing is not relevant in informing a prescription decision for all medications. The genes tested on the RightMed pharmacogenomic test will not yield meaningful information for these medications because these medications have been shown to be unaffected by any known, clinically relevant genetic variants at this time.

For more information on these medications, see oneome.com/limited-pgx-drugs.

The following table lists drugs available in our online RightMed® Advisor, which includes information on their classification and drug-to-drug interactions.

ALLERGY

Desloratadine
Phenylephrine

ANALGESIC / ANESTHESIOLOGY

Dexmedetomidine
Hydromorphone
Naloxone
Naltrexone

ANTICOAGULANT /ANTI-PLATELET

Dalteparin
Enoxaparin
Heparin
Prasugrel
Tirofiban

ANTIDOTE

Sodium nitrite
Succimer

CARDIOVASCULAR

Alirocumab
Atenolol
Benazepril
Chlorthalidone
Colesevelam
Digoxin
Enalapril
Ezetimibe
Fenofibric acid
Fosinopril
Furosemide
Gemfibrozil
Hydrochlorothiazide
Lisinopril
Nitroglycerin
Perindopril
Ramipril
Rosuvastatin

Sotalol

Spirolactone
Telmisartan

ENDOCRINOLOGY

Exenatide
Ibandronate
Insulin aspart
Insulin aspart protamine/
Insulin aspart
Insulin aspart/
Insulin degludec
Insulin degludec
Insulin detemir
Insulin glargine
Insulin glulisine
Insulin lispro
Insulin lispro protamine/
Insulin lispro
Insulin NPH
Insulin NPH/Insulin regular
Insulin regular
Insulin regular
(oral inhalation)
Levothyroxine
Metformin
Pamidronate
Propylthiouracil
Risedronate
Vasopressin

GASTROENTEROLOGY

Adalimumab
Certolizumab pegol
Infliximab

GENETIC DISEASE

Sapropterin
Sodium phenylbutyrate
Velaglucerase alfa

HEMATOLOGY

Darbepoetin alfa
Decitabine
Epoetin alfa

IMMUNOSUPPRESSION

Mycophenolate

INFECTIOUS DISEASE

Atovaquone
Cefdinir
Ceftriaxone
Fluconazole
Flucytosine
Levofloxacin
Meropenem
Moxifloxacin
Nitrofurantoin
Nystatin
Piperacillin
Posaconazole
Ribavirin
Sofosbuvir
Sulfadiazine
Vancomycin
Zanamivir

NEUROLOGY

Gabapentin
Interferon beta-1a
Interferon beta-1b
Levetiracetam
Memantine
Pramipexole
Pregabalin
Rivastigmine
Topiramate
Vigabatrin

ONCOLOGY

Afatinib
Alemtuzumab
Asparaginase

Bevacizumab
Bleomycin
Carboplatin
Cetuximab
Fulvestrant
Ibritumomab
Lenalidomide
Leucovorin calcium
Obinutuzumab
Ofatumumab
Oxaliplatin
Panitumumab
Pemetrexed
Pertuzumab
Rituximab
Temozolomide
Thalidomide
Trastuzumab

PSYCHIATRY

Desvenlafaxine
Lithium
Milnacipran
Paliperidone
Varenicline

PULMONARY

Albuterol
Levalbuterol
Montelukast
Tiotropium

RHEUMATOLOGY

Adalimumab
Belimumab
Certolizumab pegol
Etanercept
Infliximab
Probenecid

SLEEP MEDICINE

Temazepam
Zaleplon