



For more info, go to: MedCompGx.com

Medications

Conditions / Uses

Other Uses

CYP2C19

Anticonvulsants

Lacosamide (Vimpat)	Epilepsy, Seizures	
Phenobarbital (Luminal)	Epilepsy, Seizures	Barbituates, Anxiety, Sedation, Withdrawl
Primidone (Mysoline)	Epilepsy, Seizures	
Zonisamide (Zonegran)	Epilepsy, Seizures	

Antifungals

Voriconazole (Vfend)	Yeast Infections, Candidiasis, Aspergillosis, Candida, Aspergillus	
----------------------	--	--

Antidepressants

Escitalopram (Lexapro)	SSRI, Depression, Anxiety	
Citalopram (Celexa)	SSRI, Depression, Anxiety	OCD
Sertraline (Zoloft)	SSRI, Depression, Anxiety	OCD, PTSD
Doxepin (Silenor)	Tricyclic Antidepressant, Depression	Bipolar, Insomnia
Imipramine (Tofranil)	Tricyclic Antidepressant, Depression	
Trimipramine (Surmontil)	Tricyclic Antidepressant, Depression	
Amitriptyline (Elavil)		Tricyclic Antidepressant, Depression
Clomipramine (Anafranil)	Tricyclic Antidepressant, Depression	OCD

Benzodiazepines

Clobazam (Onfi)	Seizures	
Diazepam (Valium)	Seizures, Muscle Spasms, Anxiety, Alcohol Withdrawl	

Beta Blockers

Labetalol (Normodyne, Trandate)	High Blood Pressure, Hypertension	
---------------------------------	-----------------------------------	--

Immunomodulators

Leflunomide (Arava)	Rheumatoid Arthritis	
Tofacitinib (Xeljanz)	Rheumatoid Arthritis	

Muscle Relaxants

Carisoprodol (Soma)	Muscle Pain, Muscle Spasms	
---------------------	----------------------------	--

Opioids

Meperidine (Demerol)	Pain, Severe Pain, Narcotic, Opiate	
----------------------	-------------------------------------	--

Proton Pump Inhibitors

Dexlansoprazole (Dexilant)	GERD, Acid Reflux, Gastric Esophageal Reflux, Ulcers, Heartburn, Zollinger-Ellison Syndrome	
Esomeprazole (Nexium)	GERD, Acid Reflux, Gastric Esophageal Reflux, Ulcers, Heartburn, Zollinger-Ellison Syndrome	
Lansoprazole (Prevacid)	GERD, Acid Reflux, Gastric Esophageal Reflux, Ulcers, Heartburn, Zollinger-Ellison Syndrome	
Omeprazole (Prilosec)	GERD, Acid Reflux, Gastric Esophageal Reflux, Ulcers, Heartburn, Zollinger-Ellison Syndrome	
Pantoprazole (Protonix)	GERD, Acid Reflux, Gastric Esophageal Reflux, Ulcers, Heartburn, Zollinger-Ellison Syndrome	
Rabeprazole (Aciphex)	GERD, Acid Reflux, Gastric Esophageal Reflux, Ulcers, Heartburn, Zollinger-Ellison Syndrome	

CYP2D6

Alpha-Blockers for Benign Prostatic Hyperplasia

Tamsulosin (Flomax)	Overactive Bladder	Urination, Enlarged Prostate, Anuresis, Incc
---------------------	--------------------	--

Anti-ADHD Agents

Atomoxetine (Strattera)	ADD, Hyperactivity, Attention Deficit Disorder, Autism, Non-Stimulant	
-------------------------	---	--

Antianginal Agents

Ranolazine (Ranexa)	Chest Pain, Chronic Angina	
---------------------	----------------------------	--

Antiarrhythmics

Flecainide (Tambocor)	Heart Rhythm Disorders	
Mexiletine (Mexitil)	Heart Rhythm Disorders	
Propafenone (Rythmol)	Heart Rhythm Disorders	

Antidementia Agents

Donepezil (Aricept) Alzheimer's, Memory Disorder
Galantamine (Razadyne) Alzheimer's, Memory Disorder

Antiemetics

Metoclopramide (Reglan) GERD, Acid Reflux, Gastric Esophageal Reflux, Nausea, Heartburn, Gastroparesis
Ondansetron (Zofran) GERD, Acid Reflux, Gastric Esophageal Reflux, Nausea, Heartburn, Gastroparesis

Antipsychotics

Aripiprazole (Abilify) Schizophrenia Bipolar, Autism
Iloperidone (Fanapt) Schizophrenia
Paliperidone (Invega) Schizophrenia
Risperidone (Risperdal) Schizophrenia Bipolar
Clozapine (Clozaril) Schizophrenia
Olanzapine (Zyprexa) Schizophrenia Bipolar
Paroxetine (Paxil, Brisdelle) SSRI, depression, anxiety OCD, PTSD
Tetrabenazine (Xenazine) Hyperkinetic Movement Disorder, Chorea associated with Huntington's Disease
Fluphenazine (Prolixin) Schizophrenia
Thioridazine (Mellaril) Schizophrenia
Chlorpromazine (Thorazine) Schizophrenia
Perphenazine (Trilafon) Schizophrenia
Haloperidol (Haldol) Schizophrenia, Tourette's Disorder

Antidepressants

Vortioxetine (Brintellix) Serotonin Modulator, Depression
Nefazodone (Serzone) Serotonin Modulator, Depression
Venlafaxine (Effexor) SNRI, Depression, Anxiety
Desvenlafaxine (Pristiq) SNRI, Depression, Anxiety
Duloxetine (Cymbalta) SNRI, Depression, Anxiety Neuropathic Pain, Nerve Pain, Musculoskel
Fluvoxamine (Luvox) SNRI, Depression, Anxiety OCD
Maprotiline (Ludiomil) Tricyclic Antidepressant, Depression
Mirtazapine (Remeron) Tetracyclic Antidepressant, Depression
Pimozide (Orap) Tourette's
Desipramine (Norpramin) Tricyclic Antidepressant, Depression
Nortriptyline (Pamelor) Tricyclic Antidepressant, Depression
Protriptyline (Vivactil) Tricyclic Antidepressant, Depression
Amoxapine (Amoxapine) Tricyclic Antidepressant, Depression

Antispasmodics for Overactive Bladder

Darifenacin (Enblex) Overactive bladder Incontinence, Frequent Urination
Fesoterodine (Toviaz) Overactive bladder Incontinence, Frequent Urination
Mirabegron (Myrbetriq) Overactive bladder Incontinence, Frequent Urination
Tolterodine (Detrol) Overactive bladder Incontinence, Frequent Urination

Beta Blockers

Carvedilol (Coreg) High Blood Pressure, Hypertension
Metoprolol (Lopressor) High Blood Pressure, Hypertension
Nebivolol (Bystolic) High Blood Pressure, Hypertension
Timolol (Timoptic) Glaucoma

Opioids

Codeine (Codeine; Fioricet with Codein) Pain, Severe Pain, Narcotic, Opiate, Antitussive, Cough
Dihydrocodeine (Synalgos-DC) Pain, Severe Pain, Narcotic, Opiate
Hydrocodone (Vicodin) Pain, Severe Pain, Narcotic, Opiate, Antitussive, Cough
Oxycodone (Percocet, Oxycontin) Pain, Severe Pain, Narcotic, Opiate
Tramadol (Ultram) Pain, Severe Pain, Narcotic-like

CYP3A5**5-Alpha Reductase Inhibitors for Benign Prostatic Hyperplasia**

Dutasteride (Avodart) Overactive bladder Urination, Enlarged Prostate, Anuresis, Incc
Finasteride (Proscar) Overactive bladder Urination, Enlarged Prostate, Anuresis, Incc

Anticoagulants

Apixaban (Eliquis) Stroke, Embolism, Anti-clotting, Blood Thinner
Dabigatran Etexilate (Pradaxa) Stroke, Embolism, Anti-clotting, Blood Thinner
Rivaroxaban (Xarelto) Stroke, Embolism, Anti-clotting, Blood Thinner

Immunosuppressants

Tacrolimus (Prograf) Organ and Tissue Transplant Maintenance

Opioids

Alfentanil (Alfenta) Anesthesia

Phosphodiesterase Inhibitors for Erectile DysfunctionSildenafil (Viagra) Sexual Dysfunction, Erectile Dysfunction, ED
Vardenafil (Levitra) Sexual Dysfunction, Erectile Dysfunction, ED**CYP2C9****Angiotensin II Receptor Antagonists** Irbesartan (Avapro) High Blood Pressure, Hypertension**Anticonvulsants**Fosphenytoin (Cerebyx) Epilepsy, Seizures
Phenytoin (Dilantin) Epilepsy, Seizures**NSAIDs**Celecoxib (Celebrex) Osteoarthritis and Rheumatoid Arthritis
Diclofenac (Voltaren) Osteoarthritis
Flurbiprofen (Ansaid) Osteoarthritis and Rheumatoid Arthritis
Ibuprofen (Advil, Motrin) Muscle Pain, Strains, Sprains, Muscle Injury, Headache, Pain, Inflammation, Toothache, Fever, Arthritis
Indomethacin (Indocin) Osteoarthritis and Rheumatoid Arthritis, Bursitis, Tendinitis, Gouty Arthritis, Inflammation
Meloxicam (Mobic) Osteoarthritis and Rheumatoid Arthritis
Nabumetone (Relafen) Osteoarthritis and Rheumatoid Arthritis
Naproxen (Aleve) Muscle Pain, Strains, Sprains, Muscle Injury, Headache, Pain, Inflammation
Piroxicam (Feldene) Osteoarthritis and Rheumatoid Arthritis**Statins**

Fluvastatin (Lescol) High Cholesterol

SulfonylureasGlimepiride (Amaryl) Type 2 Diabetes, Glucose Control
Glipizide (Glucotrol) Type 2 Diabetes, Glucose Control
Glyburide (Micronase) Type 2 Diabetes, Glucose Control
Tolbutamide (Orinase) Type 2 Diabetes, Glucose Control**CYP2B6****Opioids**Meperidine (Demerol) Pain, Severe Pain, Narcotic, Opiate
Methadone (Dolophine) Pain, Severe Pain, Narcotic, Opiate, Addiction**OPRM1****Antiaddictives**

Naltrexone (Vivitrol) Withdrawal, Dependence Pain

OpioidsCodeine (Codeine; Fioricet with Codeine) Pain, Severe Pain, Narcotic, Opiate, Antitussive, Cough
Dihydrocodeine (Synalgos-DC) Pain, Severe Pain, Narcotic, Opiate
Fentanyl (Actiq) Pain, Severe Pain, Narcotic, Opiate
Hydrocodone (Vicodin) Pain, Severe Pain, Narcotic, Opiate, Antitussive, Cough
Morphine (MS Contin) Pain, Severe Pain, Narcotic, Opiate**COMT****Anti-ADHD Agents**Amphetamine (Adderall) ADD, Hyperactivity, Attention Deficit Disorder, Autism, Stimulants, Amphetamines
Dexmethylphenidate (Focalin) ADD, Hyperactivity, Attention Deficit Disorder, Autism, Stimulants, Amphetamines
Dextroamphetamine (Dexedrine) ADD, Hyperactivity, Attention Deficit Disorder, Autism, Stimulants, Amphetamines
Lisdexamfetamine (Vyvanse) ADD, Hyperactivity, Attention Deficit Disorder, Autism, Stimulants, Amphetamines
Methylphenidate (Ritalin) ADD, Hyperactivity, Attention Deficit Disorder, Autism, Stimulants, Amphetamines**ABCB1****Anticoagulants**

Apixaban (Eliquis) Stroke, Embolism, Anti-Clotting, Blood Thinner

Dabigatran Etexilate (Pradaxa)
Rivaroxaban (Xarelto)

Stroke, Embolism, Anti-Clotting, Blood Thinner
Stroke, Embolism, Anti-Clotting, Blood Thinner

MTHFR

Antifolates

Methotrexate (Trexall)

Cancer, Rheumatoid Arthritis