

Pharmacogenomic Test

for Psychiatry, ADHD and Pain Management

Biron B

MEDICATIONS COVERED

PSYCHIATRY AND ADHD

Antidepressants - SNRI

Desvenlafaxine (Pristiq®)
Duloxetine (Cymbalta®)
Levomilnacipran (Fetzima®)
Venlafaxine (Effexor XR®)

Antidepressants - SSRI

Citalopram (Celexa®)
Escitalopram (Cipralex®)
Fluoxetine (Prozac®)
Fluvoxamine (Luvox®)
Paroxetine (Paxil®)
Sertraline (Zoloft®)

Antidepressants -Tricyclics

Amitriptyline (Elavil®)
Clomipramine (Anafranil®)
Desipramine (Norpramin®)
Doxepin (Sinequan®)
Imipramine (Tofranil®)
Nortriptyline (Aventyl®)
Trimipramine (Surmontil®)

Antidepressants - Others

Bupropion (Wellbutrin®)
Esketamine (Spravato®)
Ketamine (Ketalar®)
Mirtazapine (Remeron®)
Trazodone (Desyrel®)
Vilazodone (Viibryd®)
Vortioxetine (Trintellix®)

Antipsychotics – 1st generation

Chlorpromazine (Largactil®)
Fluphenazine (Moditen®)
Haloperidol (Haldol®)
Loxapine (Loxapac®)
Perphenazine (Trilafon®)
Pimozide (Orap®)
Trifluoperazine (Stelazine®)
Zuclophenixol (Clopixol®)

Antipsychotics – 2nd generation

Aripiprazole (Abilify®)
Asenapine (Saphris®)
Brexpiprazole (Rexulti®)
Cariprazine (Vraylar®)
Clozapine (Clozaril®)
Lurasidone (Latuda®)
Olanzapine (Zyprexa®)
Paliperidone (Invega®)
Quetiapine (Seroquel®)
Risperidone (Risperdal®)
Ziprasidone (Zeldox®)

Anxiolytics

Alprazolam (Xanax®)
Buspirone (Buspar®)
Bromazepam (Lectopam®)
Chlordiazepoxide (Librium®)
Clobazam (Frisium®)
Clonazepam (Rivotril®)
Clorazepate (Tranxene®)

Anxiolytics (cont'd)

Diazepam (Valium®)
Flurazepam (Dalmane®)
Hydroxyzine (Atarax®)
Lorazepam (Ativan®)
Midazolam (Versed®)
Nitrazepam (Mogadon®)
Oxazepam (Serax®)
Temazepam (Restoril®)

Beta blocker

Propranolol

Central Alpha-Adrenergic Agonists

Clonidine (Catapres®)
Guanfacine (Intuniv XR®)

Monoamine Oxidase Inhibitors (MAOs)

Moclobemide (Manerix®)
Phenelzine (Nardil®)*
Tranylcypromine (Parnate®)*

Mood Stabilizers

Carbamazepine (Tegretol®)
Gabapentin (Neurontin®)
Lamotrigine (Lamictal®)
Levetiracetam (Keppra®)
Lithium (Carbolith®)
Oxcarbazepine (Trileptal®)
Phenytoin (Dilantin®)
Pregabalin (Lyrica®)

Mood Stabilizers (cont'd)

Topiramate (Topamax®)
Valproic Acid, Divalproex (Depakene®, Epival®)

Norepinephrine Reuptake Inhibitor

Atomoxetine (Strattera®)

Psychostimulants

Amphetamine/Dextroamphetamine (Adderall XR®)
Dextroamphetamine (Dexedrine®)
Lisdexamfetamine (Vyvanse®)
Methylphenidate (Ritalin®, Concerta®, Biphentin®, Focquest®)

Sedative-Hypnotics

Diphenhydramine (Benadryl®)*
Eszopiclone (Lunesta®)
Lemborexant (Dayvigo®)
Melatonin*
Phenobarbital (Phenobarb®)
Triazolam (Halcion®)
Zopiclone (Imovane®)
Zolpidem (Sublinox®)

Wakefulness-Promoting Agents

Modafinil (Alertec®)
Pitolisant (Wakix®)
Sodium oxybate (Xyrem®)*
Solriamfetol (Sunosi®)*

PAIN MANAGEMENT

Analgesic

Acetaminophen (Tylenol®)*

Antimetabolite

Methotrexate

Cannabinoids

Cannabidiol (CBD)
Nabilone (Cesamet®)*
Tetrahydrocannabinol (THC)

Muscle Relaxant

Carisoprodol (Soma®)
Cyclobenzaprine (Flexeril®)

Muscle Relaxant (cont'd)

Methocarbamol (Robaxin®)*
Tizanidine (Zanaflex®)

Nonsteroidal Anti-Inflammatory Drugs (NSAIDs)

Acetylsalicylic acid (Aspirin®)*
Celecoxib (Celebrex®)
Diclofenac (Voltaren®)
Etodolac (Ultradol®)
Flurbiprofen (Ansaid®)
Ibuprofen (Advil®)
Indomethacin (Indocid®)
Ketorolac (Toradol®)

NSAIDs (cont'd)

Meloxicam (Mobicox®)
Nabumetone (Relafen®)
Naproxen (Naprosyn®)*
Piroxicam (Feldene®)
Tenoxicam (Mobiflex®)

Opioid Antagonists

Naloxone (Narcan®)
Naltrexone (Revia®)

Opioids

Buprenorphine (Butrans®)
Butorphanol (Stadol®)*

Opioids (cont'd)

Codeine
Fentanyl (Duragesic®)
Hydrocodone (Hycodan®)
Hydromorphone (Dilaudid®)
Meperidine (Demerol®)
Methadone
Morphine
Nalbuphine (Nubain®)*
Oxycodone (Supeudol®)
Remifentanyl (Ultiva®)*
Sufentanil (Sufenta®)
Tapentadol (Nucynta®)*
Tramadol (Ultram®)

COMPLEMENTARY TREATMENTS

Antiemetics

Dimenhydrinate (Gravol®)*
Granisetron (Kytril®)

Antiemetics (cont'd)

Ondansetron (Zofran®)
Palonosetron (Aloxi®)

Proton Pump Inhibitors (PPI)

Dexlansoprazole (Dexilant®)
Esomeprazole (Nexium®)
Lansoprazole (Prevacid®)

Proton Pump Inhibitors (PPI) (cont'd)

Omeprazole (Losec®)
Pantoprazole (Pantoloc®)

Also reported only if a pharmacogenomic association is identified: Clopidogrel (Plavix®), Tamoxifen, Voriconazole (Vfend®). *Due to the lack of available scientific data, no PGx recommendations are provided for drugs identified with an asterisk (*).

GENES TESTED

Pharmacokinetic Genes:

ABCB1, ABCG2, CES1, CYP1A2, CYP2A6, CYP2B6, CYP2C9, CYP2C19, CYP2D6, CYP3A4, CYP3A5, UGT1A1, UGT1A4, UGT2B7, UGT2B15

Pharmacodynamic Genes:

ADRA2A, ANKK1, BDNF, CACNG2, CNR1, COMT, DRD2, DRD3, FAAH, GRIK1, GRIK4, HLA-A*31:01, HLA-B*15:02, HTR2A, HTR2C, HTR7, INSIG2, MC4R, MTHFR, OPRM1, IncRNA, SLC6A2, SLC6A4, SLC6A5, TH, TPH2