**Supplemental Table 1.**

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| **Cartegory** | **Medication Name** | **ATC code** |
| Anticholinergics  | First-generation antihistamines  | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Brompheniramine  | R06AB01 |  |  |  |  |  |  | 　 |
| Carbinoxamine  | R06AA08  |  |  |  |  |  |  | 　 |
| Chrlorpheniramine  | R06AB04  |  |  |  |  |  |  | 　 |
| Clemastine  | R06AA04 |  |  |  |  |  |  | 　 |
| Cyproheptadine  | R06AX02  |  |  |  |  |  |  | 　 |
| Dexbrompheniramine  | R06AB06  |  |  |  |  |  |  | 　 |
| Dexchlorpheniramine  | R06AB02 |  |  |  |  |  |  | 　 |
| Dimenhydrinate  | R06AA11 |  |  |  |  |  |  | 　 |
| Diphenhydramine (oral)  | R06AA02 | D04AA32 |  |  |  |  |  | 　 |
| Doxylamine  | R06AA09 |  |  |  |  |  |  | 　 |
| Hydroxyzine  | N05BB01 |  |  |  |  |  |  | 　 |
| Meclizine  | A04AB04 | R06AE05 | R06AE |  |  |  |  | 　 |
| Promethazine  | R06AD02 |  |  |  |  |  |  | 　 |
| Triprolidine  | R06AX07 |  |  |  |  |  |  | 　 |
| Anti-parkinsonian agents  | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Benztropine (oral)  | N04AC01 |  |  |  |  |  |  | 　 |
| Trihexyphenidyl  | N04AA01 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Antispasmodics  | 　 |  |  |  |  |  |  | 　 |
| Atropine (excludes ophthalmic)  | A03BA01 |  |  |  |  |  |  | 　 |
| Belladonna alkaloids  | A03BB | N02AA | A03BB01 | A03BB03 | N02AA01 | N02AA02 | N02AA05 | N02AA08  |
| Clidinium-Chlordiazepoxide  | A03CA02 |  |  |  |  |  |  | 　 |
| Dicyclomine  | A03AA07 |  |  |  |  |  |  | 　 |
| Hyoscyamine  | A03BA03 |  |  |  |  |  |  | 　 |
| Propantheline  | A03AB05 | A03AB | A03AB12 | A03AB18 | A03AB19 |  |  | 　 |
| Scopolamine  | A04AD01  | N05CM05 | 　 | 　 | 　 | 　 | 　 | 　 |
| Antithrombotics  | Dipyridamole  | B01AC07 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Ticlopidine  | B01AC05 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Anti-infective  | Nitrofurantoin  | J01XE01 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Cardiovascular  | Peripheral alpha-1 blockers  | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Doxazosin  | C02CA04 |  |  |  |  |  |  | 　 |
| Prazosin  | C02CA01 |  |  |  |  |  |  | 　 |
| Terazosin  | G04CA03 | G04CA | G04CA02 | G04CA04 | 　 | 　 | 　 | 　 |
| Central alpha agonists | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Clonidine  | C02LC01 |  |  |  |  |  |  | 　 |
| Guanabenz  | none |  |  |  |  |  |  | 　 |
| Guanfacine  | C02AC02 | C02AC | C02AC01 |  |  |  |  | 　 |
| Methyldopa  | C02AB01 | C02AB |  |  |  |  |  | 　 |
| Reserpine  | C02AA02 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Disopyramide  | C01BA03 | C01BA | C01BA01 | C01BA02 |  |  |  | 　 |
| Dronedarone  | C01BD07 |  |  |  |  |  |  | 　 |
| Digoxin  | C01AA05 |  |  |  |  |  |  | 　 |
| Nifedipine (immediate release)  | C08CA05 |  |  |  |  |  |  | 　 |
| Amiodarone  | C01BD01 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Central Nervous System  | Antidepressants  | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Amitriptyline  | N06AA09 |  |  |  |  |  |  | 　 |
| Amoxapine  | N06AA17 |  |  |  |  |  |  | 　 |
| Clomipramine  | N06AA04 |  |  |  |  |  |  | 　 |
| Desipramine  | N06AA01  |  |  |  |  |  |  | 　 |
| Doxepin  | N06AA12 | D04AX01 |  |  |  |  |  | 　 |
| Imipramine  | N06AA02 |  |  |  |  |  |  | 　 |
| Nortriptyline  | N06AA10 |  |  |  |  |  |  | 　 |
| Paroxetine  | N06AB05 |  |  |  |  |  |  | 　 |
| Protriptyline  |  N06AA11 |  |  |  |  |  |  | 　 |
| Trimipramine  | N06AA06 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Barbiturates  | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Amobarbital  | N05CA02 |  |  |  |  |  |  | 　 |
| Butabarbital  | N05CB01 |  |  |  |  |  |  | 　 |
| Butalbital  | N02BE71 |  |  |  |  |  |  | 　 |
| Mephobarbital  |  N03AA01 |  |  |  |  |  |  | 　 |
| Pentobarbital  | N05CA01 |  |  |  |  |  |  | 　 |
| Phenobarbital  | N03AB52 |  |  |  |  |  |  | 　 |
| Secobarbital  | N05CA06 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Benzodiazepines  | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Short- and Intermediate-acting  | 　 |  |  |  |  |  |  | 　 |
| Alprazolam  | N05BA12 |  |  |  |  |  |  | 　 |
| Estazolam  | N05CD04 |  |  |  |  |  |  | 　 |
| Lorazepam  | N05BA06 |  |  |  |  |  |  | 　 |
| Oxazepam  | N05BA04 |  |  |  |  |  |  | 　 |
| Temazepam  | N05CD07 |  |  |  |  |  |  | 　 |
| Triazolam  | N05CD05 |  |  |  |  |  |  | 　 |
| Long-acting  | 　 |  |  |  |  |  |  | 　 |
| Clorazepate  | N05BA05 |  |  |  |  |  |  | 　 |
| Chlordiazepoxide  | N05BA02 |  |  |  |  |  |  | 　 |
| Clonazepam  | N03AE01 |  |  |  |  |  |  | 　 |
| Diazepam  | N05BA01 |  |  |  |  |  |  | 　 |
| Flurazepam  | N05CD01 |  |  |  |  |  |  | 　 |
| Quazepam  | N05CD10 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Meprobamate  | N05BC01 |  |  |  |  |  |  | 　 |
| Nonbenzodiazepine, benzodiazepine receptor agonist hypnotics  | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Eszopiclone  | N05CF04 |  |  |  |  |  |  | 　 |
| Zolpidem  | N05CF02 |  |  |  |  |  |  | 　 |
| Zaleplon  | N05CF03 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Ergoloid mesylates  | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Isoxsuprine  | C04AA01 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Endocrine  | Androgens  | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Methyltestosterone  | G03BA02 | G03EK01 |  |  |  |  |  | 　 |
| Testosterone  | G03EA02  | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Desiccated thyroid  | H03BB02 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Estrogens (with or without progresterone)  | G03CA03 | G03FA01 | G03FA10 | G03FA11 | G03FA17 | 　 | 　 | 　 |
| Growth hormone  | H01AC01 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Insulin  | A10AD01 | A10AD04 | A10AD05 | A10AD06 | 　 | 　 | 　 | 　 |
| Megestrol  | G03AC05  | G03DB02 |  L02AB01 | 　 | 　 | 　 | 　 | 　 |
| Sulfonylureas (long-duration)  | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Chlorpropamide  | A10BB02 |  |  |  |  |  |  | 　 |
| Glimepiride | A10BB12 |  |  |  |  |  |  | 　 |
| Glyburide  | A10BB01 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Gastrointestinal  | Metoclopramide  | A03FA01 |  |  |  |  |  |  | 　 |
| Mineral oil (oral)  | A06AA01 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Proton-pump inhibitors  | A02BC01  | A02BC03 | A02BC04 | A02BC05 | A02BC08  | 　 | 　 | 　 |
| Pain Medications  | Meperidine  | N02AB02 |  |  |  |  |  |  | 　 |
| Non-cyclooxygenase-selective  | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| NSAIDS (oral)  | 　 |  |  |  |  |  |  | 　 |
| Aspirin  | A01AD05  | N02BA01 |  |  |  |  |  | 　 |
| Diflunisal  | N02BA11 |  |  |  |  |  |  | 　 |
| Etodolac  | M01AB08 |  |  |  |  |  |  | 　 |
| Fenoprofen  | M01AE04 |  |  |  |  |  |  | 　 |
| Ibuprofen  | M01AE01 | M01AE | M01AE02 | M01AE09 | M01AE11 |  |  | 　 |
| Ketoprofen  | M01AE03 | M02AA10 |  |  |  |  |  | 　 |
| Meclofenamate  | M01AG04 |  M02AA18 |  |  |  |  |  | 　 |
| Mefenamic acid  | M01AG01 |  |  |  |  |  |  | 　 |
| Meloxicam  | M01AC06 |  |  |  |  |  |  | 　 |
| Nabumetone  | M01AX01 | M01AX |  |  |  |  |  | 　 |
| Naproxen  | G02CC02 |  |  |  |  |  |  | 　 |
| Oxaprozin  | M01AE12 |  |  |  |  |  |  | 　 |
| Piroxicam  | M01AC01 | M02AA07 | M01AC |  |  |  |  | 　 |
| Sulindac  | M01AB02 |  |  |  |  |  |  | 　 |
| Tolmetin  | M01AB03 |  M02AA21 |  |  |  |  |  | 　 |
| Indomethacin  | M01AB01 | M02AA23 |  |  |  |  |  | 　 |
| Ketorolac  | M01AB15  | S01BC05 | 　 | 　 | 　 | 　 | 　 | 　 |
| Pentazocine  | N02AD01 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Skeletal muscle relaxants  | 　 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Carisoprodol  | M03BA02  |  |  |  |  |  |  | 　 |
| Chlorzoxazone  | M03BB03 |  |  |  |  |  |  | 　 |
| Cyclobenzaprine  | M03BX08 |  |  |  |  |  |  | 　 |
| Metaxalone  | none |  |  |  |  |  |  | 　 |
| Methocarbamol  | M03BA03 |  |  |  |  |  |  | 　 |
| Orphenadrine  | N04AB02 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |
| Genitourinary  | Desmopressin  | H01BA02 | 　 | 　 | 　 | 　 | 　 | 　 | 　 |