

High Risk Medication Alternative Table

| Description | High Risk Medication | Rationale for risk* | Alternatives |
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| Anticholinergics | brompheniramine ² , carbinoxamine ² , chlorpheniramine ² , clemastine ² , cyproheptadine, dexbrompheniramine ² , dexchlorpheniramine ² , diphenhydramine (oral) ² , dimenhydrinate ² , doxylamine ² , hydroxyzine, meclizine, promethazine, | Highly anticholinergic, clearance reduced with advanced age, and tolerance develops when used as hypnotic; greater risk of confusion, dry mouth, constipation, and other anticholinergic effects and toxicity. | Allergy: levocetirizine, desloratadine, montelukast, azelastine, intranasal steroid (e.g., fluticasone), OTCs such as cetirizine, loratadine, fexofenadine, or intranasal normal saline (member to pay out of pocket) Cough: OTCs such as guaifenesin, dextromethorphan (member to pay out of pocket) Anti-emetic: ondansetron-oral ¹ , granisetron-oral ¹ , aprepitant-oral ¹ |
| | benztropine (oral), trihexyphenidyl | Not recommended for prevention of extrapyramidal symptoms with antipsychotics; more-effective agents available for treatment of Parkinson's disease. | carbidopa & levodopa, carbidopa & levodopa & entacapone, ropinirole, pramipexole, amantadine |
| Antithrombotics | dipyridamole - oral short acting (does not apply to ER combination with aspirin) | May cause orthostatic hypotension; more effective alternatives available; intravenous form acceptable for use in cardiac stress testing. | dipyridamole & aspirin, clopidogrel |
| Anti-infective | nitrofurantoin | Potential for pulmonary toxicity; safer alternatives available; lack of efficacy in patients with CrCl < 30 mL/min due to inadequate drug concentration in the urine. | For UTI Treatment , use sulfamethoxazole/trimethoprim, fluoroquinolone (i.e., ciprofloxacin), cephalosporins (i.e., cephalexin), amoxicillin-clavulanate Note: Dosage reduction required for ciprofloxacin and sulfamethoxazole/trimethoprim if CrCl <30 mL/min For UTI Prophylaxis , consider methenamine hippurate |
| Cardiovascular | digoxin | In heart failure, higher dosages are not associated with additional benefit and may increase risk of toxicity; decreased renal clearance may lead to risk of toxic effects. | Limit use to no more than 0.125 mg of digoxin per day. Ensure patient is adherent prior to increasing dose of digoxin. |
| | clonidine guanfacine | High risk of adverse CNS effects; may cause bradycardia and orthostatic hypotension; not recommended as routine treatment for hypertension. | Multiple antihypertensive formulary alternatives available: thiazide or thiazide-type diuretics, ACE inhibitor/ARB, beta blocker, calcium channel blocker |
| | nifedipine - immediate release | Potential for hypotension; risk of precipitating myocardial ischemia. | nifedipine er, felodipine er, nisoldipine er |
| Central Nervous System | amoxapine, amitriptyline, clomipramine, desipramine, doxepin (>6mg/day), imipramine, nortriptyline, paroxetine | Highly anticholinergic, sedating, and causes orthostatic hypotension; safety profile of low-dose doxepin (6 mg/day) is comparable with that of placebo. | Neuropathic pain: gabapentin, duloxetine, pregabalin, lidocaine patch ¹ , lidocaine topical/ointment ¹ , capsaicin topical (OTC – member to pay out of pocket) Note: Dosage reduction required for gabapentin and pregabalin if CrCl <60 mL/min OCD: fluoxetine, sertraline, fluvoxamine Depression: citalopram, escitalopram, fluoxetine, sertraline, venlafaxine, desvenlafaxine er |
| | butalbital ² phenobarbital primidone | High rate of physical dependence; tolerance to sleep benefits; risk of overdose at low dosages. | Sedative/Insomnia: ramelteon, doxepin (≤ 6mg /day), trazodone Seizure: levetiracetam, ethosuximide, gabapentin, divalproex sodium, valproic acid, lamotrigine, topiramate, felbamate, carbamazepine, Dilantin, phenytoin, oxcarbazepine, pregabalin |
| | meprobamate | High rate of physical dependence; very sedating. | bupirone |
| | eszopiclone ² , zaleplon ² , zolpidem | Benzodiazepine-receptor agonists that have adverse events similar to those of benzodiazepines in older adults (e.g., delirium, falls, fractures); minimal improvement in sleep latency and duration. | Consider short-term use (< 90 days); suggest sleep hygiene techniques; re-evaluate the need for this medication after 90 days; ramelteon, doxepin (≤ 6mg/day), trazodone |
| | ergoloid mesylates ¹ | Lack of efficacy. | Consider ChEI's (donepezil, rivastigmine, galantamine), memantine |

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| Endocrine | estrogens** with or without progesterone (oral and topical patch products only) | Evidence of carcinogenic potential (breast and endometrium); lack of cardioprotective effect and cognitive protection in older women. Evidence that vaginal estrogens for treatment of vaginal dryness is safe and effective; women with a history of breast cancer should discuss risks and benefits of low-dose vaginal estrogen (estradiol < 25 mcg twice weekly) with their provider. Avoid oral and topical patch. Vaginal cream or vaginal tablets: acceptable to use low-dose intravaginal estrogen for the management of dyspareunia, recurrent lower urinary tract infections, and other vaginal symptoms. | Premarin vaginal cream, estradiol vaginal cream, yuvafem tablet, OTC lubricants such as KY Jelly or Astroglide (member to pay out of pocket) Bone density: calcium with vitamin D (OTC), alendronate, risedronate, ibandronate-oral, raloxifene, Prolia ¹ Hot flashes: venlafaxine er, paroxetine er, sertraline, fluoxetine, gabapentin, clonidine |
| | Sulfonylureas (all, including short- and longer-acting) Gliclazide ² Glimepiride Glipizide Glyburide ² (Glibenclamide) | Prolonged half-life in older adults; can cause prolonged hypoglycemia. Among sulfonylureas, long-acting agents (e.g., glyburide, glimepiride) confer a higher risk of prolonged hypoglycemia than short-acting agents (e.g., glipizide). | Multiple antidiabetic formulary alternatives available: metformin, meglitinides (repaglinide, nateglinide), DPP4i's (Januvia, Tradjenta), GLP1RAs ¹ (Trulicity, Ozempic, Mounjaro, Rybelsus, Bydureon), and SGLT2 inhibitors (Farxiga, Jardiance). If a sulfonylurea is used, choose shortacting agents (e.g., glipizide or glipizide er) over longacting agents (e.g., glyburide, glimepiride). |
| | megestrol acetate | Minimal effect on weight; increases risk of thrombotic events and possibly death in older adults. | Depressed patients - mirtazapine; treatment of cachexia associated with AIDS - oxandrolone ² and dronabinol ¹ |
| | Desiccated thyroid ³ | Concerns about cardiac effects; safer alternatives available. | levothyroxine, levoxyl, liothyronine, Synthroid, unithroid, Cytomel |
| Pain Medications | meperidine HCl ³ | Not an effective oral analgesic in dosages commonly used; may cause neurotoxicity; safer alternatives available. | Multiple formulary opioid analgesics available. Use the lowest effective dose of opioid and small quantity for the shortest duration possible. Avoid long-duration, sustained release opioids in opioid naïve individuals. |
| | indomethacin, ketorolac (includes oral and injectable routes only) | Increases risk of GI bleeding and peptic ulcer disease in high-risk groups. | Short term use of etodolac, meloxicam, nabumetone, ibuprofen, naproxen, sulindac. If these alternatives are used chronically, consider adding a PPI or misoprostol. |
| Skeletal Muscle Relaxants | carisoprodol, chlorzoxazone, cyclobenzaprine, metaxalone ² , methocarbamol, orphenadrine ³ | Most muscle relaxants are poorly tolerated by older adults because of anticholinergic adverse effects, sedation, risk of fracture; effectiveness at dosages tolerated by older adults is questionable. | Spasticity: baclofen (start with a low dose and titrate slowly up and down), tizanidine Muscle spasm: NSAID (use with PPI or misoprostol for long term use), massage therapy, physical therapy |
| ¹ = Prior Authorization required, ² = Non-Formulary, ³ = Quantity Limit. Refer to formulary for tier placement of all drugs. *American Geriatrics Society. American Geriatrics Society 2023 Updated Beers Criteria for Potential Inappropriate Medication Use in Older Adults. J Am Geriatr Soc 2023. ** Conjugated estrogens, esterified estrogens, estradiol, estropipate (including combination products, oral and transdermal routes). Some estrogen products will require Prior Authorization. Abbreviations : OTC- over the counter; ER- extended release; TCAs- tricyclic antidepressants; OCD- obsessive compulsive disorder; ChEI's- cholinesterase inhibitors; PPI- proton pump inhibitor; NSAID- nonsteroidal anti-inflammatory drug | | | |