Additional file 1. High Risk Medications to avoid in older people according to 2012 Beers Criteria after UK adaptation

|  |  |  |  |
| --- | --- | --- | --- |
| **Anti-infective** | **Tricyclic ant-depressants** | **Antipsychotic drugs (second generation)** | **Other CNS** |
| Nitrofurantoin\* | Amitriptyline | Aripiprazole\* | Phenobarbital |
| **Gastrointestinal**  | Clomipramine | Clozapine\* | Chloral hydrate |
| Metoclopramide\* | Doxepin | Olanzapine\* | Meprobamate\* |
| **Endocrine** | Imipramine | Paliperidone\* | Dihydroergotamine |
| Glibenclamide (UK substitute for ‘glyburide’) | Trimipramine | Quetiapine\* |  |
| Megestrol |  | Risperidone\* | **NSAIDs**  |
| Oestrogens\* | **Antihistamines** |  | Aspirin (>325mg/day) |
| Testosterone\* | Chlorphenamine (chlorpheniramine in US) | **Benzodiazepines (short- or intermediate acting)** | Diclofenac\* |
| Somatropin\* | Clemastine | Alprazolam\* | Etodolac\* |
|  | Cyproheptadine | Clobazam\*∫ | Ibuprofen\* |
| **Cardiovascular)** | Doxylamine | Ketazolam\*∫ | Ketoprofen\* |
| Methyldopa | Hydroxyzine | Lorazepam\* | Mefenamic acid\* |
| Nifedipine IR | Promethazine | Medazepam\*∫ | Meloxicam\* |
| Clonidine\* | Triprolidine | Oxazepam\* | Nabumetone\* |
| Doxazosin\*  |  | Temazepam\* | Naproxen\* |
| Prazosin\* | **Anti-Parkinson’s and muscle relaxants** | **Benzodiazepines (long- acting)** | Piroxicam\* |
| Terazosin\* | Trihexyphenidyl | Bromazepam\*∫ | Sulindac\* |
| Spironolactone(>25mg)\* | Orphenadrine | Chlordiazepoxide\* | Indomethacin |
| Dipyridamole IR | Methocarbamol | Clonazepam\* | Ketorolac |
| Amiodarone\* |  | Diazepam\* |  |
| Dronedarone\* | **Antipsychotic drugs (first generation)** | Flunitrazepam\* |  |
| Flecainide\* | Chlorpromazine\* | Flurazepam\*  |  |
| Propafenone\* | Fluphenazine\* | Lormetazepam\*∫ | **Other pain medications** |
| Sotalol\* | Haloperidol\* | Nitrazepam\*∫ | Pethidine (UK substitute for ‘meperidine’) |
| Disopyramide | Perphenazine\* | Triazolam\*∫ | Pentazocine |
| Digoxin (>0.125mg) | Pimozide\*  |  |  |
| **Anti-spasmodics** | Levomepromazine\* | **Non-benzodiazepine hypnotics** | ***Key*** |
| Dicycloverine (UK substitute for ‘dicyclomine’)\* | Promazine\* | Zopiclone (UK substitute for ‘eszopiclone’)\* | \*= Avoid if additional filtering conditions met |
| Propantheline\* | Trifluoperazine\* | Zolpidem\* | ∫ = UK preparation not listed in Beers |
| Hyoscine (UK substitute for ‘scopolamine’)\* |  | Zaleplon\* |  |