**On-line supplement: Prevalence of medication-related falls in 200 consecutive elderly patients with hip fractures: a cross-sectional study**

**Table S1. Medications used at the time of admission**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **n (%)** | **Category**  | **n (%)** | **Class** | **n (%)** | **Medication** | **n (%)** |
| **Cardiovascular drugs** | 163 (81.5) | Anti-hypertensives | 116 (58) | ACE-inhibitor or AT-II antagonists | 73 (36.5) | Ramipril | 22(11) |
| Enalapril | 22 (11) |
| Losartan | 26 (13) |
| Other  | 5 (2.5) |
| Beta-adrenoreceptor antagonist | 59 (29.5) | Metoprolol  | 49 (24.5) |
|  | Other  | 10 (5) |
|  Calcium-antagonist | 47 (23.5) | Amlodipine | 37 (17) |
|  | Other | 10 (5) |
| Diuretics | 91 (45.5) | Loop diuretics  | 52 (26) | Furosemide | 52 (26) |
| Thiazides | 38 (19) | Bendroflumethiazid or Hydrochlorthiazid | 38 (19) |
| Other  | 12 (6)  | Spironolactone | 7 (3.5) |
| Other  | 5 (2.5) |
| Cholesterol lowering | 67 (33.5) | Statins | 67 (33.5) | Simvastatin | 42 (21) |
| Atorvastatin | 21 (10.5) |
| Other  | 4 (2) |
| Thrombocyte-inhibitors | 66 (33) |  |  | Salicylic acid | 46 (23) |
| Clopidogrel | 22 (11) |
| Anti-coagulants  | 40 (20) | Vitamin K antagonists  | 20 (10) | Warfarin  | 20 (10) |
| NOACS | 18(9) | Rivaroxaban | 10 (5) |
| Apixaban | 6 (3) |
| Dabigatran | 2 (1) |
| LMWH | 2 | Fragmin | 2 (1) |
| Anti-arrhythmics | 11 (5.5) |  |  | Digoxin | 7 (3.5) |
|  |  | Amiodarone | 2 (1) |
| Calcium channel antagonists | 2 (1) | Diltiazem | 2 (1) |
| Vasodilators | 6 (3) | Nitrates | 6(3) | Glycerolnitrate  | 5 (2.5) |
| **Analgesics** | 113 (56.5) | Weak analgesics | 107 (53.5) |  |  | Paracetamol | 105 (52.5) |
| NSAIDs | 9 (4.5) | Ibuprofen | 9 (4.5) |
| Opioids | 37 (18.5) |  |  | Tramadol | 20 (10) |
| Morphine | 11 (5.59 |
| Buprenorphine | 4 (2) |
| Other  | 3 (1.5) |
| **Psychotropic medications** | 98 (54) | Anti-depressants | 53 (26.5) | SSRI | 34(17) | Citalopram | 20 (10) |
| Sertralin | 9 (4.5) |
| Escitalopram | 4 (2) |
| NaSSA | 17 (8.5) | Mirtazapin | 17 (8.5) |
| SNRI | 6 (3) | Duloxetine | 3 (1.5) |
| Venlafaxine  | 3(1.5) |
| TCA | 4 (2) | Amitriptyline | 2 (1) |
| Other  | 2 (1) |
| Other  | 2 (1) | Agomelatine | 2(1) |
| Benzo-diazepines  | 35 (18) | Benzodiazepine-like drugs | 21 (10.5)  | Zopiclone | 14 (7) |
| Zolpidem | 7 (3.5) |
| Benzodiazepines | 17 (8.5) | Oxazepam | 4 (2) |
| Diazepam | 3 (1.5) |
| Bromazepam | 3 (1.5) |
| Alprazolam | 3 (1.5) |
| Other  | 4 (2) |
| Antipsychotics | 17 (8.5) | 2nd generation | 12 (6) | Risperidone | 5 (2.5) |
| Olanzapine | 4 (2) |
| Quetiapine | 4 (2) |
| 1st generation | 5 (2.5) | Haloperidol, Chlorprothixen, Zuclopenthixol or other | 5 (2.5) |
| Anti-epileptics | 16 (8) | Other | 11 (5.5) | Carbamazepine | 4 (2) |
| Lamotrigine | 4 (2) |
| Levetirazetam orValproate | 3 (1.5) |
| Gabapentinoids | 6 (3) | Gabapentin | 3 (1.5) |
| Pregabalin | 3 (1.5) |
| Dementia | 16 (8) | Acetylcholinesterase-inhibitors | 11 (5.5) | Donepezil | 10 (5) |
| NMDA-receptor antagonists | 7 (3.5) | Memantin | 7 (3.5) |
| Anti-Parkinson’s | 8 (4) | Levodopa |  | Levodopa + decarboxylase inhibitor | 4 (2)  |
| Dopamine agonists | 3 (1.5) | Pramipexol | 2 (1) |
| Other | 6 (3) | 1st generation antihistamines | 3 (1.5)  | Promethazin | 3 (1.5) |
| Other | 3 (1.5) | Melatonin | 3 (1.5) |
| **Gastrointestinal medications** | 130 (65) | Vitamins and minerals | 87 (43.5) |  |  | Vitamin-D\* | 87 (43.5) |
| Calcium supplement | 60 (30) |
| Potassium | 47 (23.5) |
| Laxatives | 66 (33) | Osmotic | 63 (31.5) | Macrogol | 44 (22) |
| Magnesia | 17 (8.5) |
| Lactulose | 5 (2.5) |
| Peristalsis-increasing | 15 (7.5) | Bisacodyl | 8 (4) |
|  | Natriumpicosulfat | 7 (3.5) |
| Acid lowering agents | 50 (24) | Proton pump inhibitors | 49 (24.5) | Pantoprazole | 33 (16.5) |
| Lanzoprazole | 10 (5) |
| Omeprazole  | 6 (3) |
| Nausea | 4 (2) | Dopamine agonists | 3 (1.5) | Metoclopramid | 3 (1.5) |
| **Endocrine drugs** | 76 (38) | Anti-osteoporotic medications | 38 (19) | Bisphosphonates | 31 (15.5) | Alendronate | 28 (14) |
| Other  | 3 (1.5) |
| Monoclonal antibodies | 5 (2.5) | Denusomab | 5 (2.5) |
| Oral Antidiabetics | 16 (8) |  |  | Metformin | 16 (8) |
| DDP-4 inhibitors | 3 (1.5) | Sitagliptin | 3(1.5) |
| Sulfonylureas | 3 (1.5) | Glimepirid | 3 (1.5) |
| Insulin | 14 (7) |  |  | Insulin | 14 (7) |
| Thyroid disorders | 16 (8) | Thyroid hormones | 10 (5) | Levothyroxine | 10 (5) |
| Thiouracil derivatives | 8 (4) | Thiamazol | 8 (4) |
| Glucocorticoids | 5 (2.5) | Synthetic glucocorticoids |  | Prednisolone  | 5 (2.5) |
| **Respiratory medications**  | 47 (23.5) | Inhaled therapy for COPD or asthma  | 37 (18.5) | Short-acting beta-agonists | 29 (14.5) |  |  |
| Long-acting beta-agonists  | 27(13.5) |  |  |
| Inhaled glucocorticoids | 24 (12) |  |  |
|  | Long-acting muscarinic-antagonist | 20 (10) |  |  |
|  | Short-acting muscarinic-antagonists | 3 (1.5) |  |  |
| Anti-allergic drugs | 10 (5) | Non-sedating antihistamines | 6 (3) | Fexofenadine | 2 (1) |
| Other  | 4 (2) |
| Nasal glucocorticoid | 3 (1.5) | Fluticasonfuroate | 2(1) |
| **Urogenital medications** | 23 (11.5) | Medications for hypertrophy of the prostate | 13 (6.5) | Alpha-adrenergic blockers | 11 (5.5) |  |  |
|  | 5-alpha reductase inhibitors | 4 (2) | Finasterid | 4 (2) |
| Urinary antispasmodics | 10 (5) | Anticholinergics | 6 (3) | Tolterodin | 2(1) |
| Fesoterodin | 2 (1) |
| Beta-3 adrenoceptor agonists | 5 (2.5) | Mirabegron | 5 (2.5) |
| **Eyes** | 28 (14) | Eye drops  | 28(14) | Prostanoids | 10 (5) |  |  |
| Beta-adrenoceptor antagonists | 8 (4) | Timolol | 8(4) |
| Other  | 18 (9) |  |  |
| **Miscellaneous** | 22 (11) | Restless legs | 9 (4.5) | Antimalarials  | 9 (4.5) | Quinine | 9 (4.5) |
| Systemic antibiotics | 7 (2.5) | Beta-lactams | 4 (2) | Penicillin  | 2 (1) |
| Amoxicillin + clavulanic acid | 2 (1) |
| Other | 2 (1) | Trimethoprim | 2 (1) |
| Rheumatic disorders | 7 (4.5) | Urate synthesis-inhibitors | 6 (3)  | Allopurinol | 6 (3) |
| Other | 2 (1) | Colchicine | 2 (1) |
| Antioestrogens | 2 (1) | Aromatase inhibitors | 2 (1) | Letrozol | 2 (1) |

Table S1: vitamin-D supplement of > or = 20 ug/day. One patient could use several types of drugs. Abbreviations: ACE: angiotensin converting enzyme, AT-II: angiotensin-II receptor, LMWH: low-molecular-weight heparin, NSAIDs: nonsteroidal anti-inflammatory medications, PPI: proton pump inhibitors, SSRI: selective serotonin reuptake inhibitors, SNRI: serotonin and noradrenaline reuptake inhibitors, TCA: tricyclic antidepressants, SABA: short-acting beta-agonists, LAMA+ICS: long-acting beta adrenoceptor-agonists + inhaled corticosteroids, NOAC: non-warfarin oral anticoagulants, NMDA: N-Methyl-D-aspartate, NaSSa: noradrenergic and specific serotonergic antidepressants, DDP-4: dipeptidyl peptidase-4.