



Table S1. Equivalences between names used in ADRs classification and ATC codes.

Name	ATC Code
Analgesic	M01A
Angiotensin-converting enzyme (ACE) inhibitor	C09A
Angiotensin II receptor blocker	C09C
Antiarrhythmic	C01
Antibiotic	J01
Anticoagulant	B01AB
Antidepressant	N06A
Antiepileptic	N03A
Antiplatelet	B01AC
Antivitamin K	B01AA
Benzodiazepine	N05BA
Beta blocker	C07
Bronchodilator	R03
Corticoid	H02A
Loop diuretic	C03C
Hypnotic	N05C
Insulin	A10A
Neuroleptic	N05A
Opioid	N02A
Oral anticoagulant	B01AE, B01AF
Oral antidiabetic	A10B
Potassium sparing diuretic	C03D
Proton pump inhibitor	A02BC
Statin	C10AA
Thiazide diuretic	C03A

ATC: Anatomical Therapeutic Chemical.

Table S2. Number and percentage of patients with each chronic condition or geriatric syndrome registered according to the assigned multimorbidity cluster.

Chronic Condition or Geriatric Syndrome	Osteo-Articular	Psycho-Geriatic	Minor Chronic Disease	Cardio-Respiratory
Acute confusional syndrome/delirium	51 (37.2)	102 (67.5)	29 (22.8)	53 (16.3)
Amputation	7 (5.1)	2 (1.3)	4 (3.1)	3 (0.9)
Anaemia	77 (56.2)	64 (42.4)	76 (59.8)	117 (36.0)
Asthma	32 (23.4)	11 (7.3)	10 (7.9)	29 (8.9)
Cardiac arrhythmia	86 (62.8)	77 (51.0)	77 (60.6)	183 (56.3)
Cerebrovascular disease	40 (29.2)	53 (35.1)	36 (28.3)	59 (18.2)
Chronic gastritis or gastro-oesophageal reflux	25 (18.2)	11 (7.3)	19 (15.0)	39 (12.0)
Chronic pain	127 (92.7)	82 (54.3)	88 (69.3)	105 (32.3)
Chronic renal insufficiency	81 (59.1)	50 (33.1)	73 (57.5)	116 (35.7)
Chronic thyroid disease	44 (32.1)	19 (12.6)	23 (18.1)	49 (15.1)
Cognitive/Intellectual impairment	32 (23.4)	130 (86.1)	35 (27.6)	32 (9.8)
Constipation	78 (56.9)	88 (58.3)	41 (32.3)	133 (40.9)
COPD	41 (29.9)	38 (25.2)	49 (38.6)	145 (44.6)
Degenerative arthropathy	111 (81.0)	79 (52.3)	81 (63.8)	114 (35.1)
Dementia	17 (12.4)	98 (64.9)	24 (18.9)	40 (12.3)

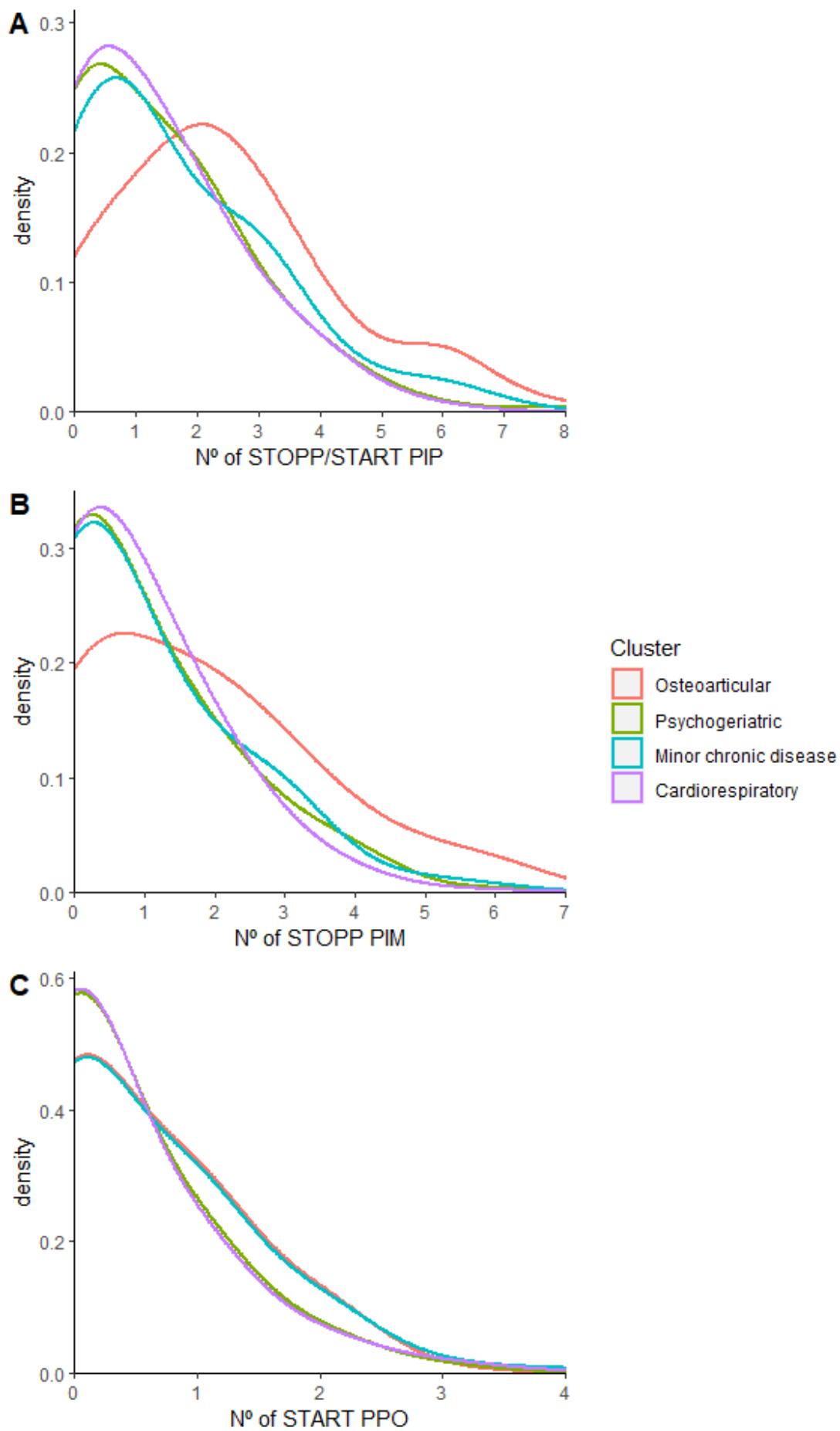


Figure S1. **A:** Distribution of the number of STOPP/START PIP according to the assigned multimorbidity cluster. Pairwise comparisons between cluster distributions performed with the Kolmogorov-Smirnov test showed significant differences between the osteoarticular cluster and the rest ($p < 0.001$). PIP: Potentially inappropriate prescribing. **B:** Distribution of the number of STOPP PIM according to the assigned multimorbidity cluster. Pairwise comparisons between cluster distributions performed with the Kolmogorov-Smirnov test showed significant differences between the osteoarticular cluster and the rest ($p < 0.005$). PIM: potentially inappropriate medication. **C:** Distribution of the number of START PPO according to the assigned multimorbidity cluster. Pairwise comparisons between cluster distributions performed with the Kolmogorov-Smirnov test showed no significant differences ($p > 0.05$). PPO: potential prescribing omission.

