

Benzodiazepine receptor agonists use and cessation among multimorbid older adults with polypharmacy: secondary analysis from the OPERAM trial

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Supplementary material

Supplementary material 1: list of ATC codes for drug classes and ICD-10 codes for pathologies

	ATC codes
BZRA	N03AE01, N05BA, N05CD, N05CF
Antidepressants	N06AA, N06AB, N06AF, N06AG, N06AX
Antipsychotics	N05AA, N05AB, N05AD, N05AE, N05AF, N05AG, N05AH, N05AL, N05AX
Antiepileptics	N03AA, N03AB, N03AC, N03AD, N03AF, N03AG, N03AX
Opioids	N02A
	ICD-10 codes
Depression	F32; F33
Major cognitive disorder	F00; F01; F02; F03; F05.1; G30; G31.1
Bipolar or psychotic disorder	F31, F30.2, F33.2, F33.3, F06.3, F22.0, F29, F20.0, F28, Z86.5
Extrapyramidal syndrome	G20, G21, G23, G24, G25, G26
Major fracture	M80, M81, S22, S32, S42.2, S52.2, S52.5, , S52.6, S52.9, S62.9, S62.10, S72.0, S72.2, S12
COPD	J43.X; J44.X
Diabetes	E10.X–E14.X; G590; G632; G730; G990; H280; H360; I792; L97; M142; M146; N083; G590; G632; G730; G990; H280; H360; I792; L97; M142; M146; N083
Chronic kidney disease	N18.X; I12.X; I13.1; I13.2; E10.2; E11.2; E13.2; E14.2; N08.3; Z49.0–Z49.2; Z94.0; Z99.2
Chronic heart disease	I11.0; I13.0; I13.2; I13.9; I50.X; K76.1; J81.X
Chronic liver disease	R18, I85, K70, K71.4, K71.5, K71.7, K72, K73, K74, K76.1, B18, C22, C78.7

ATC = Anatomical Therapeutic Chemical; BZRA= Benzodiazepine Receptor Agonists; COPD= Chronic Obstructive Pulmonary Disease; ICD-10= International Classification of Diseases, Tenth Revision[1]

Supplementary material 2: regular versus rescue use molecules

	<i>Baseline</i> N= 421	<i>6-month follow-up</i> N= 427
Regular use n (%)	296 (70.3)	284 (66.5)
Rescue use n (%)	119 (28.3)	59 (32.8)
Not available n (%)	19 (1.4)	14 (0.7)

Supplementary material 3: Top 5 Benzodiazepine receptor agonist molecules

Baseline N=421

ATC code	INN	n (%)
N05CF02	Zolpidem	96 (22.8)
N05BA06	Lorazepam	64 (15.2)
N05CD07	Temazepam	40 (9.5)
N05BA12	Alprazolam	37 (8.8)
N05BA04	Oxazepam	34 (8.1)

ATC = Anatomical Therapeutic Chemical; INN= International non-proprietary name

6-month follow-up N=427

ATC code	INN	n (%)
N05CF02	Zolpidem	105 (24.6)
N05BA06	Lorazepam	76 (17.8)
N05CD07	Temazepam	38 (8.9)
N05BA04	Oxazepam	34 (8.0)
N05BA12	Alprazolam	29 (6.8)

ATC = Anatomical Therapeutic Chemical; INN= International non-proprietary name

1 References

1. (WHO) WHO. ICD-10 Version:2016. 2021.