

Supplementary Table 1. List of study drugs

Migraine treatment	ATC code	Active substance	Redeemability	Route of Administration	DDD
Treatment with acute medications					
Specific acute treatment					
Triptans	N02CC01	Sumatriptan	A	oral, parenteral	50 mg/6 mg
	N02CC03	Zolmitriptan	A	oral	2.5 mg
	N02CC04	Rizatriptan	A	oral	10 mg
	N02CC05	Almotriptan	A	oral	12.5 mg
	N02CC06	Eletriptan	A	oral	40 mg
	N02CC07	Frovatriptan	A	oral	2.5 mg
	Non-specific acute treatment				
Opioids	N02AX02	Tramadol	A	oral, parenteral, rectal	0.3 g
	N02AJ06	Codeine + Paracetamol	A	oral	30 mg/0.5 g
NSAIDs	M01AB05	Diclofenac	A	oral, parenteral, rectal	0.1 g
	M01AE09	Flurbiprofen	A	oral, rectal	0.2 g
	M01AE01	Ibuprofen	A	oral, parenteral, rectal	1.2 g
	M01AB01	Indometacin	A	oral, parenteral, rectal	0.1 g
	M01AE03	Ketoprofen	A	oral, parenteral, rectal	0.15 g
	M01AB15	Ketorolac	A	oral, parenteral	30 mg
	M01AE02	Naproxen	A	oral, rectal	0.5 g
	M01AX17	Nimesulide	A	oral	0.2 g
	M01AC01	Piroxicam	A	oral, parenteral, rectal	20 mg
	N02BA01	Aspirin	A	parenteral	1 g
	Propulsives	A03FA01	Metoclopramide	A	oral, parenteral
Antiemetics	A04AA01	Ondansetron	A/H	oral, parenteral, rectal	16 mg
Treatment with prophylactic medications					
Specific prophylactic treatment					
Antiserotonergic	N02CX01	Pizotifen	A	oral	1.5 mg
Non-specific prophylactic treatment					
Beta-blockers	C07AB02	Metoprolol	A/H	oral, parenteral	0.15 g
	C07AA05	Propranolol	A	oral, parenteral	0.16 g
Antidepressants	N06AA09	Amitriptyline	A	oral, parenteral	75 mg

	N06AX11	Mirtazapine	A	oral	30 mg
Antiepileptics	N03AX11	Topiramate	A	oral	0.3 g
Other anticonvulsants	N03AG01	Valproic Acid	A/H	oral, parenteral	1.5 g
	N03AX09	Lamotrigine	A	oral	0.3 g

Abbreviations: ATC, Anatomical Therapeutic Chemical; DDD, Defined Daily Doses; NSAIDs, Nonsteroidal anti-inflammatory drugs.

Supplementary Table 2. Algorithms used for the identification of comorbidities

Comorbidities	ICD-9 code
Autoimmune disease	420.0, 424.91, 517.8, 583.81, 710.0, 340, 357.1, 359.6, 714.0-714.2, 714.81, 714.89, 714.9, 720.0, 555, 569, 556, 560, 569, 694.3, 696.0, 696.1, 390, 391.0- 391.2, 391.8, 391.9
Chronic kidney disease	250.41, 250.40, 582, 583, 590.00- 590.01, 583.89, 583.81, 585-587, 753.12-753.15
Chronic obstructive pulmonary disease (COPD)	490-493, 496
Diabetes	249-250, 648, 362
Hypertension	401-405, 437.2
Liver disease	571.0, 571.2, 573.3, 571.40, 571.41, 571.49, 571.5, 571.6, 571.9, 571.8, 070.32, 070.33, 070.54, 070.59, 456.0, 456.1, 456.20, 456.21
Obesity	278.1, 278.00- 278.03

Supplementary Table 3. Algorithms used for the identification of comedICATIONS

Comedications	ATC code
Anticonvulsants	N03 except N03AX11, N03AG01, N03AX09
Antidepressants	N06A except N06AA09, N06AX11
Beta-blockers	C07 except C07AB02, C07AA05
Cardiovascular medications	C01-C10
Drugs for respiratory system	R01-R03