Supplementary Table 7.1: Demographic and clinical characteristics at the first visit in a rheumatology outpatient clinic of those patients that were not discharged, that were discharged and were not readmitted or that were discharged and later readmitted

Variables*	No discharge	Without Outpatient Readmission	With Outpatient Readmission	p-value total
Sex	7310 (67.1)	11489 (69.3)	4445 (73.8)	8.29E-19
Age at first visit,	54.8	55.2	57.5	6.32E-21
median (Q1-Q3)	(41.7-69.7)	(43.6-69.2)	(46.4-71.1)	0.5212-21
Diagnoses				
No Diagnosis	2100 (19.3)	2389 (14.4)	$796 \ (13.2)$	6.58E-34
Tendinitis (Upper Extremities)	1335 (12.2)	2612 (15.8)	1066 (17.7)	6.27E-24
Back Pain	1013 (9.3)	$2708 \ (16.3)$	759 (12.6)	1.13E-62
Pain in Joint	917 (8.4)	2003 (12.1)	586 (9.7)	3.58E-22
Osteoarthritis of Knee	640 (5.9)	1484 (9)	549 (9.1)	5.45E-22
Tendinitis (Lower Extremities)	534 (4.9)	1171 (7.1)	510 (8.5)	1.82E-20
Osteoarthritis	406 (3.7)	1054 (6.4)	398 (6.6)	4.58E-23
Neck Pain	321 (2.9)	1079 (6.5)	335 (5.6)	3.87E-38
Chronic Polyarthritis	1011 (9.3)	175(1.1)	293(4.9)	4.21E-230
Tendinitis	391 (3.6)	739(4.5)	272(4.5)	7.29E-04
Osteoarthritis of Hand	247(2.3)	865 (5.2)	247(4.1)	1.05E-32
Crystal Arthropathies	467(4.3)	442(2.7)	247(4.1)	5.66E-14
Muscle Disorders	181 (1.7)	748(4.5)	186 (3.1)	4.21E-37
Peripheral Neuropathy	415(3.8)	439(2.6)	153(2.5)	1.72E-08
Axial Neuropathy	366 (3.4)	448(2.7)	168 (2.8)	0.005
Other connective tissue	FO1 (F 9)	000 (1.9)	197 (0.9)	0.045.06
inflammatory diseases	581 (5.3)	222 (1.3)	137(2.3)	8.94E-86
Osteoporosis	272(2.5)	359(2.2)	132(2.2)	0.18
Gout	326(3)	309 (1.9)	121 (2)	2.18E-09
Osteoarthritis of First	00 (0.0)	276 (2.2)		1.00E 19
Carpometacarpal Joint	98 (0.9)	376 (2.3)	149 (2.5)	1.09E-18
Osteoporosis Fracture	267(2.4)	238(1.4)	95 (1.6)	1.75E-09
Spondyloarthropathy	355 (3.3)	78 (0.5)	68 (1.1)	1.96E-77
Osteoarthritis of Hip	119 (1.1)	281 (1.7)	92 (1.5)	2.34E-04
Other non-Inflammatory	200 (1.0)	002 (1.2)	40 (0.0)	1 0 4 E 0 7
Diseases	200 (1.8)	$223\ (1.3)$	48 (0.8)	1.84E-07
Fibromyalgia	95 (0.9)	172(1)	65(1.1)	0.30
Deformity of Feet	42 (0.4)	202(1.2)	61 (1)	6.69E-12
Treatments				
Analgesic 1st level	2745 (25.2)	5410 (32.6)	2055 (34.1)	3.72E-48
$\overline{ ext{NSAIDs}}$	2686(24.6)	5110 (30.8)	2013 (33.4)	2.50E-40
Gastric protector	1634 (15)	2077(12.5)	965 (16)	1.35E-13
Corticosteroid	$1437 \ (13.2)$	615(3.7)	496 (8.2)	5.43E-184
Analgesic 2nd and 3rd level	732 (6.7)	1149 (6.9)	468 (7.8)	0.031
Calcium and Vitamin D	1057(9.7)	$728 \ (4.4)$	$353\ (5.9)$	1.00E-68
Benzodiazepine	510(4.7)	1181 (7.1)	391(6.5)	1.38E-15
Antiosteoporotic	281(2.6)	296 (1.8)	121 (2)	3.65E-05
Colchicine	297(2.7)	216(1.3)	88 (1.5)	4.12E-18
Gabapentine	207(1.9)	280(1.7)	99 (1.6)	0.34

Other drugs	240 (2.2)	202 (1.2)	OE (1 4)	4.25E-11
NSAIDs Hard	248 (2.3) 274 (2.5)	203 (1.2) 153 (0.9)	85 (1.4) 90 (1.5)	4.25E-11 1.56E-24
SYSADOA	90 (0.83)	$293 \ (1.77)$	94 (1.56)	1.50E-24
Antidepressant	127 (1.2)	162 (1)	73 (1.2)	0.19
Folic Acid	270 (2.5)	22 (0.1)	45 (0.7)	1.33E-80
DMARDs Oral Methotrexate	` /	` '	` /	
Other DMARDs	227 (2.1)	20 (0.1)	41 (0.7)	8.21E-66 1.47E-66
	215(2)	16 (0.1)	32 (0.5)	
Lowering uric acid drugs	117 (1.1)	95 (0.6)	37 (0.6)	6.25E-06
DMARDs Antimalarial	$174 \ (1.6)$	9 (0.1)	41 (0.7)	7.49E-52
Comorbidities	0000 (01)	2077 (24)	1550 (05.0)	2.0117.12
Hypertension	2289 (21)	3977 (24)	1552 (25.8)	3.81E-13
Dyslipidemia	1870 (17.2)	3336 (20.1)	1286 (21.4)	9.26E-13
Diabetes mellitus	818 (7.5)	1308 (7.9)	477 (7.9)	0.45
Hypothyroidism	588 (5.4)	990 (6)	374 (6.2)	0.051
Depression	410 (3.8)	763 (4.6)	309 (5.1)	5.30E-05
Cancer	491 (4.5)	708 (4.3)	251 (4.2)	0.52
Neurologic disease	341 (3.1)	590 (3.6)	181 (3)	0.048
Smoking habit	397 (3.6)	547 (3.3)	$156 \ (2.6)$	0.001
Articular prosthesis	342 (3.1)	543 (3.3)	209 (3.5)	0.50
Obesity	278 (2.6)	604 (3.6)	205 (3.4)	2.73E-06
Other arrhythmias	364 (3.3)	524 (3.2)	194 (3.2)	0.71
Anticoagulant	357 (3.3)	469(2.8)	189 (3.1)	0.093
Other stomach-esophagus-bowel	336 (3.1)	457 (2.8)	171 (2.8)	0.28
diseases	, ,	, ,	` ,	
Biliary diseases	301 (2.8)	427(2.6)	219 (3.6)	1.04E-04
Gynecology surgeries	286 (2.6)	463 (2.8)	167(2.8)	0.69
Cholecystectomy	288 (2.6)	409(2.5)	207(3.4)	3.31E-04
Ischemic heart disease	315 (2.9)	437 (2.6)	147 (2.4)	0.19
Other colon diseases	302(2.8)	398(2.4)	179(3)	0.030
Osteoporosis	213 (2)	451 (2.7)	204 (3.4)	4.67E-08
Appendicitis	292 (2.7)	398 (2.4)	155 (2.6)	0.34
Other virus infection	261 (2.4)	352 (2.1)	147 (2.4)	0.21
Asthma	254 (2.3)	346(2.1)	156 (2.6)	0.065
Hiatal hernia	226 (2.1)	346 (2.1)	171 (2.8)	0.001
Back pain	221 (2)	365 (2.2)	143 (2.4)	0.32
Peripheral venous insufficiency	221(2)	333(2)	154 (2.6)	0.030
Other endocrine diseases	218(2)	350(2.1)	138 (2.3)	0.45
Atrial fibrillation	254 (2.3)	323 (1.9)	118(2)	0.074
Other uterus diseases	206 (1.9)	337(2)	152 (2.5)	0.019
Central peripheral systems diseases	234 (2.15)	314 (1.89)	142 (2.36)	0.070
Benign prostatic hypertrophy	211 (1.9)	355(2.1)	110 (1.8)	0.25
Hematologic disease	220(2)	302 (1.8)	120(2)	0.45
Other infection	243(2.2)	268 (1.6)	119(2)	0.001
Allergy	208 (1.9)	293 (1.8)	120(2)	0.47
Articular surgery non-prosthesis	194(1.8)	306 (1.8)	121(2)	0.57
Thyroid others	212(1.9)	290 (1.7)	111 (1.8)	0.49
Pregnancy	208 (1.9)	292 (1.8)	110(1.8)	0.67
Hyperuricemia	205(1.9)	288(1.7)	94 (1.6)	0.31
Helicobacter pylori infection	196 (1.8)	278(1.7)	112(1.9)	0.58
Cataract	205(1.9)	266 (1.6)	113(1.9)	0.16
Other musculoskeletal diseases	192 (1.8)	274 (1.7)	113 (1.9)	0.50

041	104 (1.0)	971 (1.6)	101 (17)	0.66
Other otorhinolaryngology diseases	194 (1.8)	271 (1.6)	101 (1.7)	0.66
Feet diseases	188 (1.7)	259 (1.6)	118 (2)	0.11
Alcoholic habit	207 (1.9)	246 (1.5)	103 (1.7)	0.029
Gastroesophageal reflux disease	167 (1.5)	278 (1.7)	103 (1.7)	0.57
Anxiety	$131\ (1.2)$	277 (1.7)	131 (2.2)	6.09E-06
Chronic obstructive pulmonary disease	175 (1.6)	$273\ (1.6)$	87 (1.4)	0.56
Non osteoporotic fracture	196 (1.8)	225(1.4)	103 (1.7)	0.009
Column surgery	164 (1.5)	258 (1.6)	97 (1.6)	0.86
Other hip knee diseases	154 (1.4)	228 (1.4)	117 (1.9)	0.006
Other dermatological diseases	176 (1.6)	231 (1.4)	84 (1.4)	0.29
ORL surgeries	145 (1.3)	249 (1.5)	96 (1.6)	0.33
Other spine diseases	149 (1.4)	240 (1.4)	99 (1.6)	0.35
Osteoporotic fracture	164 (1.5)	224 (1.4)	98 (1.6)	0.26
Other respiratory diseases	167 (1.5)	219 (1.3)	87 (1.4)	0.34
Connective tissue disease	201 (1.8)	189 (1.1)	82 (1.4)	7.60E-06
Breast cancer	140 (1.3)	237 (1.4)	92 (1.4)	0.39
Migraine	140 (1.3) $141 (1.3)$	238 (1.4)	78 (1.3)	0.54
Viral hepatitis	166 (1.5)	204 (1.2)	83 (1.4)	0.54 0.12
Cerebrovascular disease	148 (1.4)	221 (1.3)	78 (1.3)	$0.12 \\ 0.94$
Internal derangement of knee	118 (1.1)	227 (1.3) $227 (1.4)$	83 (1.4)	0.94 0.087
Other eye diseases	141 (1.3)	197 (1.2)	90 (1.5)	0.087
Psoriasis	167 (1.5)	182 (1.1)	65 (1.1)	0.19
Anemia	` /	, ,	` /	0.003 0.17
	146 (1.3)	182 (1.1)	77 (1.3)	$0.17 \\ 0.42$
Urological obstruction	140 (1.3)	186 (1.1)	67 (1.1)	
Kidney failure	142 (1.3)	170 (1)	75 (1.2)	0.084
Other urological diseases	122 (1.1)	187 (1.1)	68 (1.1)	1.00
Non-specified valvulopathy	131 (1.2)	182 (1.1)	64 (1.1)	0.64
Other liver disease	127 (1.2)	177 (1.1)	69 (1.1)	0.73
Connective tissue benign tumour	115 (1.1)	182 (1.1)	76 (1.3)	0.45
Gastritis	104 (1)	178 (1.1)	80 (1.3)	0.078
Other ear diseases	104 (1)	173 (1)	76 (1.3)	0.17
Thyroidectomy	107 (1)	172 (1)	72 (1.2)	0.42
Other benign tumours	110 (1)	157 (0.9)	74 (1.2)	0.17
Knee surgery prosthesis	108 (1)	172 (1)	58 (1)	0.86
Colon abdomen surgeries	111 (1)	163 (1)	61 (1)	0.95
Shoulder elbow diseases	111 (1)	155 (0.9)	64 (1.1)	0.63
Other ovary diseases	115 (1.1)	142 (0.9)	55 (0.9)	0.24
Urological surgery	90 (0.8)	138 (0.8)	67 (1.1)	0.10
Glaucoma	84 (0.8)	137 (0.8)	71 (1.2)	0.016
Benign breast tumor	89 (0.8)	135 (0.8)	50 (0.8)	0.99
Statins	1408 (12.9)	2661 (16.1)	$1056 \ (17.5)$	1.04E-17
Diuretic	815 (7.5)	1341 (8.1)	551 (9.2)	6.71E-04
Proton-pump inhibitor medication	778 (7.1)	1172 (7.1)	565 (9.4)	8.39E-09
Angiotensin-converting-enzyme	713 (6.5)	1167(7)	462 (7.7)	0.021
inhibitor	,	,	` ,	
Angiotensin II receptor blocker	588 (5.4)	1006 (6.1)	422 (7)	1.24E-04
Benzodiazepine	588 (5.4)	977 (5.9)	436 (7.2)	6.48E-06
Thyroid hormone	563 (5.2)	967 (5.8)	401 (6.7)	3.01E-04
Antidepressant medication	553 (5.1)	981 (5.9)	384 (6.4)	7.28E-04
Antiaggregant	570 (5.2)	900 (5.4)	354 (5.9)	0.20

Severe decrease in mobility Almost dependent	364 (3.3) $126 (1.2)$	$322 (1.9) \\ 113 (0.7)$	119 (2) 34 (0.6)	
Moderate decrease in mobility	841 (7.7)	741 (4.5)	348 (5.8)	
Severe social and slight physical	1680 (15.4)	1765 (10.6)	742 (12.3)	
Slight social	4264 (39.1)	6420 (38.7)	2724 (45.2)	
None	3615 (33.2)	7207 (43.5)	2054 (34.1)	9.11E-120
Disability				
High	$143 \ (1.3)$	105 (0.6)	35 (0.6)	
Moderate	$2321\ (21.3)$	$2501\ (15.1)$	$1180 \ (19.6)$	
Low	6738 (61.8)	10770 (65)	3899 (64.8)	
None	$1696 \ (15.6)$	$3198 \ (19.3)$	907 (15.1)	1.36E-57
Distress	` '	` '	` '	
$\operatorname{Student}$	301 (2.8)	423(2.6)	98 (1.6)	
Housework	$1656\ (15.2)$	2763 (16.7)	$1137\ (18.9)$	
Retired	2573 (23.6)	3747 (22.6)	1519 (25.2)	
Active	6368 (58.4)	9641 (58.2)	3267 (54.3)	2.55E-15
Occupation	00 (0.0)	111 (0.1)	10 (0.0)	U.I.I
Metamizole	96 (0.9)	111 (0.7)	46 (0.8)	0.14
Constipation medication	81 (0.7)	124 (0.7)	56 (0.9)	0.32 0.34
Antiepileptics	91 (0.8)	138 (0.8)	47 (0.8)	0.92
Symptomatic slow action drugs	53 (0.49)	149 (0.9)	83 (1.38)	7.23E-09
Ocular hypertension medication	90 (0.8)	135 (0.8)	75 (1.2)	0.006
Allergy medication	96 (0.9)	146 (0.9)	62 (1)	0.54
Tramadol	118 (1.1)	198 (1.2)	81 (1.3)	0.32
Gabapentin	130 (1.2)	196 (1.2)	91 (1.5)	0.12
Inhaled corticosteroid	150 (1.4)	192 (1.2)	86 (1.4)	0.15
Lowering uric acid drugs	177 (1.6)	237 (1.4)	75 (1.2)	0.13
Benign prostatic hyperplasia medication	160 (1.5)	255 (1.5)	79 (1.3)	0.46
NSAIDs	199 (1.8)	$198 \ (1.2)$	131 (2.2)	4.39E-08
Insulin	152 (1.4)	$291\ (1.8)$	117 (1.9)	0.014
Bronchodilator	202 (1.9)	288 (1.7)	128(2.1)	0.16
Biphosphonates	184 (1.7)	376(2.3)	165(2.7)	1.72 E-05
Paracetamol	252 (2.3)	342 (2.1)	162(2.7)	0.017
Other non-specified antihypertensive drugs	151 (1.4)	$461\ (2.8)$	163 (2.7)	4.00E-14
Beta-blocker	429 (3.9)	641 (3.9)	$270 \ (4.5)$	0.10
Calcium antagonist	410 (3.8)	$711 \ (4.3)$	267 (4.4)	0.046
Calcium	378(3.5)	774 (4.7)	331 (5.5)	6.61E-10
Oral antidiabetics	537 (4.9)	923 (5.6)	336 (5.6)	0.049

 $^{^{\}ast}$ n (%) for all variables except indicated otherwise. Q1-Q3: First and third quartiles; NSAIDs: Nonsteroidal anti-inflammatory drugs; ORL: Otorhinolaryngology; SYSADOA: Symptomatic Slow-Acting Drugs for Osteoarthritis

Supplementary Table 7.2: Bivariable linear regression mixed models to assess the influence of demographic and clinical related variables in the health-related quality of life of the first visit of each episode, in patients attending a rheumatology outpatient clinic

	Main effect diag	nosis	Main effect Epi	sode	Interaction	1	
variable	Coef. (95% CI)	p-value	Coef. (95% CI)	p-value	Coef. (95% CI)	p-value	AIC
Readmission visit			-0.09 (-0.19 to 0.01)	0.073			87532.1
Hip Osteoarthritis							87515.35
No diagnosis	Ref.						
In the first episode	-1.48 (-2.30 to -0.65)	4.79E-04					
In the second episode	-1.14 (-1.82 to -0.45)	0.001					
In both episodes	-1.10 (-1.96 to -0.23)	0.013					
Hip Osteoarthritis							87496.46
X Episode							01490.40
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-2.49 (-3.51 to -1.47)	1.63E-06	-0.09 (-0.19 to 0.01)	0.067	2.03 (0.84 to 3.21)	7.90E-04	
In the second episode	-0.32 (-1.16 to 0.52)	0.45			-1.63 (-2.60 to -0.65)	0.001	
In both episodes	-1.43 (-2.45 to -0.42)	0.006			0.67 (-0.39 to 1.73)	2.20E-01	
Knee Osteoarthritis							87477.71
No diagnosis	Ref.						
In the first episode	-0.64 (-1.06 to -0.22)	0.003					
In the second episode	-0.36 (-0.71 to -0.02)	0.038					
In both episodes	-1.25 (-1.57 to -0.93)	1.35E-14					
Knee Osteoarthritis							87463.86
X Episode							01403.00
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-0.38 (-0.89 to 0.14)	0.15	-0.09 (-0.19 to 0.02)	0.11	-0.52 (-1.11 to 0.07)	0.085	
In the second episode	-0.04 (-0.46 to 0.38)	0.84			-0.64 (-1.12 to -0.16)	0.009	
In both episodes	-1.52 (-1.89 to -1.15)	8.81E-16			0.54 (0.16 to 0.92)	0.005	
Hand Osteoarthritis							87531.58
No diagnosis	Ref.						

In the first episode	0.47 (-0.10 to 1.05)	0.11					
In the second episode	0.50 (-0.08 to 1.08)	0.09					
In both episodes	$0.56 \ (0.05 \ \text{to} \ 1.08)$	0.032					
Hand Osteoarthritis							87534
X Episode							01994
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	0.75 (0.05 to 1.45)	0.037	-0.07 (-0.17 to 0.03)	0.15	-0.55 (-1.36 to 0.25)	0.18	
In the second episode	0.61 (-0.10 to 1.31)	0.09			-0.22 (-1.02 to 0.58)	0.59	
In both episodes	0.65 (0.05 to 1.26)	0.033			-0.19 (-0.81 to 0.44)	0.56	
Osteoarthritis of First							87536.24
Carpometacarpal Joint							01000.24
No diagnosis	Ref.						
In the first episode	$0.16 \ (-0.49 \ \text{to} \ 0.81)$	0.64					
In the second episode	$0.36 \ (-0.32 \ \text{to} \ 1.03)$	0.3					
In both episodes	$0.55 \ (-0.14 \ \text{to} \ 1.23)$	0.12					
Osteoarthritis of First							
Carpometacarpal Joint							87537.95
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	$0.55 \ (-0.24 \ \text{to} \ 1.34)$	0.17	-0.08 (-0.18 to 0.02)	0.12	-0.79 (-1.69 to 0.11)	0.084	
In the second episode	$0.43 \ (-0.40 \ \text{to} \ 1.26)$	0.31			-0.15 (-1.10 to 0.80)	0.75	
In both episodes	$0.53 \ (-0.27 \ \text{to} \ 1.33)$	0.19			$0.03 \ (-0.82 \ \text{to} \ 0.87)$	9.50E-01	
Ostheoarthritis of							87512.37
Peripheral Joints							01012.01
No diagnosis	Ref.						
In the first episode	-0.76 (-1.21 to -0.32)	7.30E-04					
In the second episode	-0.43 (-0.87 to 0.00)	0.053					
In both episodes	-0.91 (-1.32 to -0.50)	1.26E-05					

Ostheoarthritis of							07507.00
Peripheral Joints							87507.23
X Episode	D. C		D. C		D. C		
No diagnosis	Ref.	0.10	Ref.		Ref.	0.000	
In the first episode	-0.42 (-0.96 to 0.12)	0.13	-0.06 (-0.17 to 0.04)	0.22	-0.69 (-1.30 to -0.07)	0.029	
In the second episode	-0.12 (-0.65 to 0.41)	0.65			-0.62 (-1.21 to -0.02)	0.042	
In both episodes	-1.03 (-1.50 to -0.55)	2.24E-05			$0.24 \ (-0.25 \ \text{to} \ 0.73)$	3.30E-01	
Neck Pain							87537.89
No diagnosis	Ref.						
In the first episode	0.24 (-0.18 to 0.66)	0.26					
In the second episode	0.13 (-0.38 to 0.63)	0.63					
In both episodes	0.11 (-0.40 to 0.61)	0.67					
Neck Pain	,						07541.09
X Episode							87541.83
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	0.37 (-0.15 to 0.88)	0.17	-0.09 (-0.19 to 0.02)	0.1	-0.25 (-0.84 to 0.35)	0.41	
In the second episode	0.13 (-0.49 to 0.74)	0.69	, , ,		0.00 (-0.69 to 0.70)	1.00E+00	
In both episodes	0.04 (-0.55 to 0.64)	0.88			0.13 (-0.51 to 0.77)	6.90E-01	
Feet deformities	,				,		87535.02
No diagnosis	Ref.						
In the first episode	-0.66 (-1.56 to 0.24)	0.15					
In the second episode	0.14 (-0.72 to 0.99)	0.76					
In both episodes	-0.82 (-1.85 to 0.22)	0.12					
Feet deformities	,						
X Episode							87536.73
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-0.37 (-1.46 to 0.72)	0.51	-0.09 (-0.19 to 0.01)	0.074	-0.58 (-1.83 to 0.66)	0.36	
In the second episode	0.21 (-0.84 to 1.25)	0.7	(0.0.2	-0.14 (-1.34 to 1.05)	0.81	
In both episodes	-1.35 (-2.60 to -0.09)	0.036			1.06 (-0.35 to 2.47)	1.40E-01	
Pain in Joint	=:30 (= :00 00 0:00)	0.000			(0.00 00 2.11)		87517.8

No diagnosis	Ref.						
In the first episode	$0.42 \ (0.07 \ \text{to} \ 0.78)$	0.02					
In the second episode	0.53 (0.14 to 0.92)	0.008					
In both episodes	0.75 (0.36 to 1.13)	1.54E-04					
Pain in Joint							87517.79
X Episode							01011.19
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	0.65 (0.22 to 1.08)	0.003	-0.08 (-0.18 to 0.02)	0.13	-0.46 (-0.94 to 0.02)	0.059	
In the second episode	0.53 (0.06 to 1.00)	0.028			$0.01 \ (-0.52 \ \text{to} \ 0.54)$	9.80E-01	
In both episodes	$0.62 \ (0.17 \ \text{to} \ 1.08)$	0.007			$0.25 \ (-0.23 \ \text{to} \ 0.73)$	3.10E-01	
Fibromyalgia							87517.19
No diagnosis	Ref.						
In the first episode	-1.37 (-2.61 to -0.13)	0.03					
In the second episode	-1.56 (-2.38 to -0.74)	1.94E-04					
In both episodes	-1.45 (-2.25 to -0.65)	3.76E-04					
Fibromyalgia							87513.52
X Episode							07013.02
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-2.21 (-3.74 to -0.68)	0.005	-0.08 (-0.18 to 0.02)	0.1	1.68 (-0.10 to 3.45)	6.40E-02	
In the second episode	-0.93 (-1.92 to 0.06)	0.067			-1.27 (-2.38 to -0.15)	0.026	
In both episodes	-1.40 (-2.33 to -0.48)	0.003			-0.10 (-1.03 to 0.82)	0.83	
Back Pain							87533.07
No diagnosis	Ref.						
In the first episode	-0.04 (-0.37 to 0.28)	0.8					
In the second episode	0.15 (-0.16 to 0.47)	0.33					
In both episodes	-0.33 (-0.64 to -0.02)	0.036					
Back Pain							87531.53
X Episode							07001.00
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	0.19 (-0.21 to 0.58)	0.35	-0.05 (-0.16 to 0.06)	0.34	-0.46 (-0.91 to -0.01)	0.046	

In the second episode	0.33 (-0.05 to 0.71)	0.09			-0.34 (-0.78 to 0.09)	0.12	
In both episodes	-0.36 (-0.72 to 0.00)	0.052			$0.06 \ (-0.32 \ \text{to} \ 0.43)$	7.70E-01	
Muscle Disorders							87537.68
No diagnosis	Ref.						
In the first episode	$0.31 \ (-0.22 \ \text{to} \ 0.85)$	0.25					
In the second episode	$0.21 \ (-0.37 \ \text{to} \ 0.79)$	0.48					
In both episodes	$0.00 \ (-0.76 \ \text{to} \ 0.76)$	1					
Muscle Disorders							87540.86
X Episode							01040.00
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	$0.50 \ (-0.15 \ \text{to} \ 1.14)$	0.13	-0.08 (-0.18 to 0.02)	0.11	-0.37 (-1.10 to 0.36)	0.33	
In the second episode	0.12 (-0.59 to 0.83)	0.74			0.18 (-0.62 to 0.98)	6.60E-01	
In both episodes	0.16 (-0.73 to 1.06)	0.72			-0.33 (-1.28 to 0.63)	0.5	
Gout							87536.13
No diagnosis	Ref.						
In the first episode	-0.24 (-1.29 to 0.81)	0.65					
In the second episode	-0.75 (-1.72 to 0.21)	0.13					
In both episodes	0.23 (-0.46 to 0.92)	0.51					
Gout	·						07500 12
X Episode							87528.13
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	$0.42 \ (-0.85 \ \text{to} \ 1.69)$	0.52	-0.07 (-0.17 to 0.03)	0.17	-1.32 (-2.75 to 0.11)	0.07	
In the second episode	0.27 (-0.90 to 1.43)	0.65			-2.04 (-3.33 to -0.74)	0.002	
In both episodes	0.32 (-0.48 to 1.11)	0.44			-0.17 (-0.95 to 0.62)	0.68	_
Other connective tissue	,				,		07596.45
inflammatory diseases							87536.45
No diagnosis	Ref.						
In the first episode	0.38 (-0.96 to 1.71)	0.58					
In the second episode	0.27 (-0.42 to 0.96)	0.45					
In both episodes	-0.35 (-0.91 to 0.21)	0.22					

(Dx) Other connective tissue inflammatory diseases							87536.12
X Episode							01030.12
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	0.81 (-0.81 to 2.43)	0.33	-0.08 (-0.18 to 0.02)	0.14	-0.87 (-2.72 to 0.98)	0.36	
In the second episode	0.07 (-0.76 to 0.91)	0.86	0.00 (0.10 00 0.02)	0.11	0.39 (-0.55 to 1.33)	4.20E-01	
In both episodes	-0.05 (-0.69 to 0.59)	0.88			-0.60 (-1.23 to 0.02)	0.058	
Crystal arthropathies	(0.00 (0.00)	0.00			(0.000	87514.29
No diagnosis	Ref.						
In the first episode	-0.68 (-1.21 to -0.14)	0.013					
In the second episode	-0.71 (-1.25 to -0.18)	0.009					
In both episodes	-1.10 (-1.60 to -0.61)	1.28E-05					
Crystal arthropathies	,						07509 51
X Episode							87503.51
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-0.59 (-1.24 to 0.07)	0.078	-0.09 (-0.19 to 0.01)	0.083	-0.18 (-0.93 to 0.56)	0.63	
In the second episode	-0.17 (-0.82 to 0.48)	0.61			-1.09 (-1.84 to -0.34)	0.004	
In both episodes	-1.51 (-2.09 to -0.93)	3.49E-07			0.81 (0.21 to 1.41)	0.009	
Other non-Inflammatory							87510.44
Diseases							01010.44
No diagnosis	Ref.						
In the first episode	-2.46 (-3.59 to -1.33)	1.92E-05					
In the second episode	-1.38 (-2.24 to -0.52)	0.002					
In both episodes	-1.55 (-2.67 to -0.43)	0.007					
Other non-Inflammatory							87499.55
Diseases X Episode							01499.00
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-2.38 (-3.75 to -1.01)	6.68E-04	-0.08 (-0.18 to 0.02)	0.13	-0.16 (-1.72 to 1.41)	0.85	
In the second episode	-0.23 (-1.27 to 0.82)	0.67	_		-2.30 (-3.48 to -1.11)	1.44E-04	
In both episodes	-1.95 (-3.29 to -0.62)	0.004			0.80 (-0.65 to 2.25)	2.80E-01	

Chronic polyarthritis							87531.62
No diagnosis	Ref.						
In the first episode	-0.68 (-1.38 to 0.02)	0.058					
In the second episode	-0.53 (-1.01 to -0.04)	0.034					
In both episodes	-0.26 (-0.68 to 0.15)	0.22					
Chronic polyarthritis							87505.77
X Episode							87303.77
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	$0.23 \ (-0.62 \ \text{to} \ 1.09)$	0.59	-0.09 (-0.20 to 0.01)	0.071	-1.82 (-2.79 to -0.84)	2.57E-04	
In the second episode	-0.17 (-0.75 to 0.42)	0.58			-0.72 (-1.37 to -0.06)	0.032	
In both episodes	-0.65 (-1.12 to -0.18)	0.007			0.78 (0.34 to 1.23)	5.84E-04	
Spondyloarthropathies							87536.08
No diagnosis	Ref.						
In the first episode	$0.56 \ (-0.97 \ \text{to} \ 2.09)$	0.47					
In the second episode	0.67 (-0.21 to 1.55)	0.14					
In both episodes	0.46 (-0.33 to 1.26)	0.25					
Spondyloarthropathies							87540.31
X Episode							07540.51
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	0.39 (-1.49 to 2.26)	0.69	-0.09 (-0.19 to 0.00)	0.061	0.34 (-1.83 to 2.52)	7.60E-01	
In the second episode	$0.50 \ (-0.56 \ \text{to} \ 1.56)$	0.35			$0.33 \ (-0.84 \ \text{to} \ 1.51)$	5.80E-01	
In both episodes	0.37 (-0.53 to 1.28)	0.42			$0.18 \ (-0.69 \ \text{to} \ 1.04)$	6.90E-01	
Axial Neuropathy							87519.2
No diagnosis	Ref.						
In the first episode	-0.43 (-1.07 to 0.21)	0.19					
In the second episode	-0.57 (-1.11 to -0.02)	0.041					
In both episodes	-1.26 (-1.85 to -0.68)	2.51E-05					
Axial Neuropathy							87511.86
X Episode							01011.00
No diagnosis	Ref.		Ref.		Ref.		

In the first episode	-0.62 (-1.41 to 0.17)	0.12	-0.10 (-0.20 to 0.00)	0.058	0.38 (-0.53 to 1.29)	4.20E-01	
In the second episode	-0.13 (-0.79 to 0.54)	0.71			-0.88 (-1.64 to -0.12)	0.024	
In both episodes	-1.70 (-2.39 to -1.02)	9.95E-07			0.88 (0.19 to 1.58)	1.30E-02	
Peripheral Neuropathy							87537.63
No diagnosis	Ref.						
In the first episode	-0.09 (-0.76 to 0.58)	0.79					
In the second episode	$0.10 \ (-0.47 \ \text{to} \ 0.66)$	0.73					
In both episodes	0.43 (-0.27 to 1.12)	0.23					
Peripheral Neuropathy							87538.89
X Episode							01930.09
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	0.24 (-0.57 to 1.05)	0.56	-0.09 (-0.19 to 0.01)	0.073	-0.66 (-1.58 to 0.27)	0.16	
In the second episode	-0.14 (-0.83 to 0.54)	0.68			$0.48 \ (-0.29 \ \text{to} \ 1.26)$	2.20E-01	
In both episodes	0.37 (-0.45 to 1.19)	0.37			0.11 (-0.76 to 0.98)	8.00E-01	
No Diagnoses							87505.65
No diagnosis	Ref.						
In the first episode	$0.53 \ (0.24 \ \text{to} \ 0.81)$	3.33E-04					
In the second episode	0.45 (0.01 to 0.89)	0.046					
In both episodes	$0.94 \ (0.56 \ \text{to} \ 1.33)$	1.51E-06					
No Diagnoses							87509.31
X Episode							67509.51
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	0.58 (0.23 to 0.93)	0.001	-0.07 (-0.18 to 0.03)	0.17	-0.11 (-0.50 to 0.28)	0.59	
In the second episode	0.59 (0.06 to 1.13)	0.03			-0.29 (-0.90 to 0.32)	0.35	
In both episodes	0.94 (0.49 to 1.39)	4.57E-05			$0.01 \ (-0.47 \ \text{to} \ 0.48)$	9.80E-01	
Osteoporosis							87534.32
No diagnosis	Ref.						
In the first episode	-0.04 (-0.96 to 0.88)	0.93					
In the second episode	-0.22 (-0.96 to 0.53)	0.57					
In both episodes	0.73 (0.05 to 1.42)	0.036					

Osteoporosis							87519.95
X Episode	D.C		D. C		D C		
No diagnosis	Ref.	0.070	Ref.	0.074	Ref.	0.001	
In the first episode	1.03 (-0.11 to 2.16)	0.076	-0.09 (-0.19 to 0.01)	0.074	-2.13 (-3.44 to -0.82)	0.001	
In the second episode	-1.00 (-1.90 to -0.09)	0.03			1.56 (0.53 to 2.59)	0.003	
In both episodes	$0.78 \ (-0.02 \ \text{to} \ 1.58)$	0.056			-0.09 (-0.92 to 0.74)	0.82	07500.60
Osteoporosis Fracture	D. C						87528.63
No diagnosis	Ref.	0.00					
In the first episode	-1.92 (-3.28 to -0.57)	0.005					
In the second episode	-0.78 (-1.55 to 0.00)	0.049					
In both episodes	-0.23 (-0.97 to 0.50)	0.53					
Osteoporosis Fracture							87527.72
X Episode	T. 4		T. 4		T. 4		
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-1.51 (-3.14 to 0.12)	0.069	-0.09 (-0.18 to 0.01)	0.09	-0.82 (-2.63 to 0.99)	0.38	
In the second episode	-0.29 (-1.22 to 0.64)	0.54			-0.97 (-2.02 to 0.07)	0.067	
In both episodes	$-0.50 \ (-1.35 \ \text{to} \ 0.35)$	0.25			$0.53 \ (-0.32 \ \text{to} \ 1.39)$	2.20E-01	
Tendinitis							87536.21
No diagnosis	Ref.						
In the first episode	-0.01 (-0.50 to 0.48)	0.97					
In the second episode	0.04 (-0.49 to 0.57)	0.87					
In both episodes	$0.50 \ (-0.06 \ \text{to} \ 1.06)$	0.081					
Tendinitis							87539.84
X Episode							01009.04
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	$0.10 \ (-0.50 \ \text{to} \ 0.70)$	0.74	-0.09 (-0.19 to 0.01)	0.071	-0.22 (-0.90 to 0.46)	0.53	
In the second episode	-0.09 (-0.73 to 0.55)	0.78			$0.27 \ (-0.46 \ \text{to} \ 1.00)$	4.70E-01	
In both episodes	0.42 (-0.24 to 1.07)	0.21			$0.16 \ (-0.52 \ \text{to} \ 0.85)$	6.40E-01	
Tendinitis (Lower Extremities)							87536.87
No diagnosis	Ref.						

In the first episode	0.00 (-0.37 to 0.37)	0.99					
In the second episode	0.23 (-0.12 to 0.58)	0.19					
In both episodes	0.17 (-0.18 to 0.52)	0.33					
Tendinitis (Lower Extremities)	,						07700 70
X Episode							87533.79
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	0.37 (-0.08 to 0.83)	0.11	-0.06 (-0.17 to 0.04)	0.23	-0.75 (-1.28 to -0.22)	0.005	
In the second episode	0.25 (-0.18 to 0.68)	0.25			-0.03 (-0.52 to 0.46)	0.9	
In both episodes	0.15 (-0.26 to 0.56)	0.48			0.05 (-0.38 to 0.48)	8.10E-01	
Tendinitis (Upper Extremities)							87535.28
No diagnosis	Ref.						
In the first episode	-0.23 (-0.54 to 0.08)	0.14					
In the second episode	0.14 (-0.16 to 0.44)	0.36					
In both episodes	0.05 (-0.20 to 0.30)	0.71					
Tendinitis (Upper Extremities)							87534.68
X Episode							07554.00
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-0.10 (-0.48 to 0.27)	0.59	-0.07 (-0.18 to 0.04)	0.21	-0.26 (-0.69 to 0.17)	0.23	
In the second episode	$0.32 \ (-0.05 \ \text{to} \ 0.68)$	0.09			-0.35 (-0.77 to 0.07)	0.1	
In both episodes	-0.02 (-0.32 to 0.27)	0.87			$0.14 \ (-0.15 \ \text{to} \ 0.44)$	3.40E-01	
Admission-readmission pair							
$1^{ m st}$	Ref.						
$2^{ m nd}$	-0.12 (-0.28 to 0.03)	0.12					87534.98
$3^{ m rd}$	-0.14 (-0.40 to 0.12)	0.29					
$4^{ m th}$	-0.24 (-0.65 to 0.17)	0.25					
$\geq \! 5^{ ext{th}}$	-0.57 (-1.11 to -0.02)	0.042					
Admission-readmission pair							87533.37
X Episode							01000.01
$1^{ m st}$	Ref.		Ref.			Ref.	_
2^{nd}	0.04 (-0.17 to 0.24)	0.73	-0.04 (-0.15 to 0.07)	0.48	-0.32 (-0.58 to -0.05)	0.018	

$3^{ m rd}$	-0.27 (-0.61 to 0.08)	0.13			0.25 (-0.19 to 0.69)	2.70E-01	
$4^{ m th}$	-0.20 (-0.74 to 0.35)	0.48			-0.09 (-0.81 to 0.62)	0.8	
$5^{ m th}$	-0.33 (-1.03 to 0.37)	0.35			-0.47 (-1.35 to 0.41)	0.3	
Number of common diagnosis	,				·		9759495
between episodes							87524.25
0	Ref.						
1	-0.01 (-0.17 to 0.15)	0.88					
2	-0.44 (-0.78 to -0.10)	0.011					
>2	-0.96 (-1.59 to -0.33)	0.003					
Number of common diagnosis							
between episodes							87492.92
X Episode							
0	Ref.		Ref.			Ref.	
1	-0.30 (-0.49 to -0.11)	0.002	-0.50 (-0.68 to -0.33)	1.67E-08	0.57 (0.35 to 0.78)	1.97E-07	
2	-0.83 (-1.24 to -0.42)	7.82E-05			0.77 (0.31 to 1.22)	9.16E-04	
>2	-1.68 (-2.45 to -0.92)	1.46E-05			1.45 (0.59 to 2.30)	9.30E-04	
Time for previous discharge							87528.24
0-2 months	Ref.						
2-12 months	0.19 (0.03 to 0.36)	0.024					
>12 months	0.27 (0.09 to 0.45)	0.004					
Time for previous discharge							
X Episode							
0-2 months	Ref.		Ref.			Ref.	
2-12 months	$0.23 \ (0.02 \ \text{to} \ 0.43)$	0.031	0.17 (-0.01 to 0.35)	0.057	-0.07 (-0.30 to 0.17)	0.59	87487.96
>12 months	0.64 (0.42 to 0.86)	1.46E-08			-0.73 (-0.98 to -0.49)	5.81E-09	
Women	-0.16 (-0.37 to 0.04)	0.12					87532.93
Age at first visit at the clinic	-0.04 (-0.04 to -0.03)	5.44E-40					87362.51
Age at first visit of episode	-0.04 (-0.04 to -0.03)	1.05E-44					87340.93
Calendar year at first visit	-0.09 (-0.12 to -0.06)	8.01E-10					87497.62
Allergy	$0.53 \ (-0.05 \ \text{to} \ 1.12)$	0.074					87532.12

Anemia	-0.87 (-1.58 to -0.17)	0.016	87529.46
Atrial fibrillation	-2.05 (-2.62 to -1.49)	7.03E-13	87483.86
Other arrhythmias	-1.58 (-2.02 to -1.13)	3.61E-12	87487.07
Cholecystectomy	0.24 (-0.19 to 0.66)	0.28	87534.12
Biliary diseases	0.17 (-0.25 to 0.59)	0.43	87534.67
Breast cancer	-0.24 (-0.92 to 0.43)	0.48	87534.81
Cancer	-0.57 (-0.97 to -0.17)	0.005	87527.4
Ischemic heart disease	-0.54 (-1.06 to -0.02)	0.042	87531.17
Cataract	-0.33 (-0.89 to 0.23)	0.24	87533.95
Articular surgery non-prosthesis	-0.09 (-0.63 to 0.46)	0.75	87535.21
Articular prosthesis	-0.43 (-0.84 to -0.01)	0.043	87531.22
Colon abdomen surgeries	-1.20 (-1.99 to -0.42)	0.003	87526.29
Gynecology surgeries	-0.14 (-0.64 to 0.35)	0.58	87535
ORL surgeries	0.51 (-0.15 to 1.17)	0.13	87533.03
Other colon diseases	-1.06 (-1.53 to -0.60)	7.43E-06	87515.24
Other dermatological diseases	0.36 (-0.32 to 1.04)	0.3	87534.22
Psoriasis	0.59 (-0.13 to 1.32)	0.11	87532.75
Diabetes mellitus	-1.01 (-1.31 to -0.71)	4.75E-11	87492.16
Appendicitis	-0.17 (-0.69 to 0.35)	0.51	87534.88
Dyslipidemia	-0.24 (-0.44 to -0.04)	0.018	87529.74
Hematologic disease	-1.04 (-1.61 to -0.47)	3.57E-04	87522.59
Neurologic disease	-2.53 (-2.97 to -2.09)	1.19E-29	87408.07
Connective tissue disease	-0.58 (-1.24 to 0.09)	0.089	87532.42
Asthma	-0.17 (-0.69 to 0.34)	0.51	87534.87
Chronic obstructive pulmonary disease	-0.84 (-1.53 to -0.15)	0.016	87529.53
Other respiratory diseases	-1.81 (-2.45 to -1.16)	4.56E-08	87505.46
Hiatal hernia	-0.52 (-1.00 to -0.05)	0.031	87530.65
Gastroesophageal reflux disease	-0.52 (-1.14 to 0.10)	0.1	87532.6

Other stomach-esophagus-bowel	0.06 (-0.41 to 0.53)	0.79	8*	7535.2
diseases	,			
Gastritis	-0.96 (-1.63 to -0.29)	0.005		7527.
Anticoagulant	-2.14 (-2.58 to -1.71)	5.68E-22		7442.
Pregnancy	0.75 (0.17 to 1.34)	0.011		7528.
Benign breast tumor	0.89 (0.08 to 1.71)	0.032		87530
Other ovary diseases	-0.22 (-1.08 to 0.63)	0.61		7535.
Other uterus diseases	$0.04 \ (-0.47 \ \text{to} \ 0.56)$	0.87	87	7535.2
Glaucoma	-0.61 (-1.34 to 0.12)	0.1	89	7532.0
Alcoholic habit	-0.03 (-0.65 to 0.60)	0.93	8	87535.
Smoking habit	-0.15 (-0.63 to 0.33)	0.54	89	7534.9
Viral hepatitis	$0.45 \ (-0.29 \ \text{to} \ 1.19)$	0.23	8	7533.8
Other liver disease	-1.35 (-2.05 to -0.65)	1.66E-04		7521.
Benign prostatic hypertrophy	-0.37 (-0.99 to 0.24)	0.23		7533.8
Hypertension	-0.77 (-0.96 to -0.58)	3.00E-15	8'	7473.
Other infection	-0.86 (-1.41 to -0.31)	0.002	8'	7526.0
Other virus infection	$0.16 \ (-0.39 \ \text{to} \ 0.70)$	0.58	87	7534.
Kidney failure	-2.40 (-3.12 to -1.68)	6.26E-11	8'	7492.
Peripheral venous insufficiency	-0.30 (-0.81 to 0.22)	0.26	87	7534.0
Migraine	-0.45 (-1.13 to 0.24)	0.2	89	7533.0
Other hip knee diseases	-0.19 (-0.74 to 0.36)	0.49	87	7534.8
Column surgery	-0.71 (-1.34 to -0.07)	0.03	8'	7530.5
Back pain	-0.52 (-1.03 to -0.01)	0.046	8'	7531.3
Other spine diseases	-1.22 (-1.84 to -0.59)	1.29E-04	8'	7520.
Non osteoporotic fracture	-0.24 (-0.82 to 0.34)	0.42		7534.
Osteoporotic fracture	-0.30 (-0.91 to 0.30)	0.33	87	7534.
Shoulder elbow diseases	-0.67 (-1.36 to 0.01)	0.055	8'	7531.0
Hyperuricemia	-0.02 (-0.67 to 0.64)	0.96	8	87535.
Osteoporosis	-0.29 (-0.73 to 0.15)	0.2	87	7533.6
Other musculoskeletal diseases	-0.81 (-1.40 to -0.23)	0.007	8'	7527.9

Feet diseases	-1.38 (-1.92 to -0.84)	6.01E-07	87510.43
Knee surgery prosthesis	-1.78 (-2.54 to -1.02)	4.11E-06	87514.12
Internal derangement of knee	0.13 (-0.51 to 0.76)	0.69	87535.15
Central peripheral systems diseases	-0.87 (-1.36 to -0.38)	5.01E-04	87523.2
Obesity	-0.53 (-0.96 to -0.10)	0.016	87529.54
Other ear diseases	-0.70 (-1.44 to 0.05)	0.068	87531.96
Other eye diseases	$0.13 \ (-0.53 \ \text{to} \ 0.78)$	0.7	87535.16
Other otorhinolaryngology diseases	-0.44 (-1.04 to 0.15)	0.15	87533.19
Cerebrovascular disease	-2.16 (-2.84 to -1.48)	3.68E-10	87496.08
Other endocrine diseases	-0.28 (-0.81 to 0.25)	0.3	87534.23
Anxiety	-0.71 (-1.26 to -0.15)	0.012	87529.06
Depression	-1.01 (-1.38 to -0.65)	3.85E-08	87505.11
Hypothyroidism	-0.31 (-0.65 to 0.03)	0.071	87532.04
Thyroid others	-0.39 (-1.00 to 0.22)	0.21	87533.72
Thyroidectomy	-0.87 (-1.61 to -0.13)	0.021	87529.97
Connective tissue benign tumour	0.06 (-0.66 to 0.78)	0.86	87535.28
Other benign tumours	-0.21 (-0.90 to 0.48)	0.55	87534.95
Helicobacter pylori infection	-0.76 (-1.36 to -0.16)	0.013	87529.11
Urological obstruction	$0.12 \ (-0.61 \ \text{to} \ 0.85)$	0.74	87535.2
Other urological diseases	-0.67 (-1.38 to 0.03)	0.061	87531.8
Urological surgery	-1.22 (-1.95 to -0.49)	0.001	87524.66
Non-specified valvulopathy	-0.15 (-0.91 to 0.61)	0.69	87535.15
NSAIDs	-0.52 (-1.08 to 0.04)	0.071	87532.04
Allergy medication	-0.20 (-0.98 to 0.57)	0.6	87535.04
Metamizole	-2.15 (-2.95 to -1.34)	1.78E-07	87508.07
Paracetamol	-1.61 (-2.07 to -1.16)	3.65E-12	87487.13
Tramadol	-1.21 (-1.82 to -0.60)	9.49E-05	87520.09
Antiaggregant	-0.61 (-0.94 to -0.27)	3.79E-04	87522.68

Antiepileptics	-0.64 (-1.42 to 0.14)	0.11	8	87532.71
Biphosphonates	-0.04 (-0.51 to 0.44)	0.88	8	87535.28
Calcium	-0.24 (-0.58 to 0.09)	0.15	8	87533.28
Oral antidiabetics	-0.71 (-1.04 to -0.37)	3.83E-05	8	87518.36
Insulin	-1.20 (-1.78 to -0.61)	6.91E-05	8	87519.49
Statins	-0.32 (-0.53 to -0.11)	0.003	8	87526.2
Constipation medication	-1.08 (-1.88 to -0.29)	0.008	8	87528.21
Gabapentin	-1.05 (-1.63 to -0.48)	3.60E-04	8	87522.59
Lowering uric acid drugs	-0.84 (-1.51 to -0.17)	0.014	8	87529.21
Benign prostatic hyperplasia medication	-0.38 (-1.10 to 0.34)	0.3	8	87534.24
Thyroid hormone	-0.33 (-0.65 to -0.01)	0.044	8	87531.27
Angiotensin II receptor blocker	-0.30 (-0.61 to 0.00)	0.052	8	87531.54
Beta-blocker	-0.40 (-0.78 to -0.02)	0.037	8	87530.97
Calcium antagonist	-0.66 (-1.04 to -0.28)	6.74E-04	8	87523.75
Diuretic	-0.33 (-0.60 to -0.05)	0.02	8	87529.87
Other non-specified antihypertensive drugs	-0.29 (-0.80 to 0.23)	0.28	8	87534.13
Angiotensin-converting-enzyme inhibitor	-0.51 (-0.80 to -0.21)	7.47E-04	8	87523.94
Ocular hypertension medication	-0.22 (-0.94 to 0.51)	0.56	8	87534.96
Proton-pump inhibitor medication	-0.63 (-0.90 to -0.36)	3.85E-06		87514
Bronchodilator	-0.43 (-0.99 to 0.13)	0.13	8	87533.06
Inhaled corticosteroid	-0.38 (-1.08 to 0.32)	0.29	8	87534.17
Antidepressant medication	-0.71 (-1.02 to -0.41)	5.12E-06	8	87514.54
Benzodiazepine	-0.59 (-0.90 to -0.29)	1.04E-04	8	87520.26
Symptomatic slow action drugs for osteoarthritis	0.16 (-0.51 to 0.82)	0.64	8	87535.09

CI: Confidence interval; Coef: Coefficient; Ref: Reference category

Supplementary Table 7.3: Multivariable linear regression mixed model to assess the influence of demographic and clinical related variables in the health-related quality of life of the first visit of each episode, in patients attending a rheumatology outpatient clinic

Variables	Main effect		Interaction			
variables	Coef. (95% CI)	p-value	Coef. $(95\% \text{ CI})$	p-value		
Women	-0.24 (-0.45 to -0.04)	0.022				
Age at first visit	-0.02 (-0.02 to -0.01)	8.00E-10				
Calendar year of first	-0.06 (-0.09 to -0.03)	3.00E-04				
visit	-0.00 (-0.09 to -0.03)	3.00L-04				
Readmission	0.15 (0.00 to 0.29)	0.045				
Admission-readmission						
pair						
1	Ref.		Ref.			
2	0.33 (0.13 to 0.54)	0.002	-0.39 (-0.65 to -0.13)	0.003		
3	$0.16 \ (-0.18 \ \text{to} \ 0.51)$	0.35	$0.13 \ (-0.31 \ \text{to} \ 0.56)$	0.58		
4	$0.42 \ (-0.13 \ \text{to} \ 0.96)$	0.13	-0.31 (-1.02 to 0.40)	0.40		
5	$0.36 \ (-0.34 \ \text{to} \ 1.06)$	0.31	-0.67 (-1.54 to 0.20)	0.13		
Osteoarthritis of Hip						
No diagnosis	Ref.		Ref.			
First episode	-2.38 (-3.38 to -1.37)	3.50E-06	2.35 (1.17 to 3.52)	8.90E-05		
Second episode	-0.33 (-1.16 to 0.50)	0.43	-1.28 (-2.25 to -0.31)	0.010		
Both episodes	-1.11 (-2.10 to -0.12)	0.029	$0.63 \ (-0.43 \ \text{to} \ 1.68)$	0.24		
Osteoarthritis of Knee						
No diagnosis	Ref.		Ref.			
First episode	-0.002 (-0.51 to 0.51)	1.00	-0.36 (-0.95 to 0.23)	0.23		
Second episode	0.14 (-0.27 to 0.56)	0.50	-0.44 (-0.92 to 0.05)	0.076		
Both episodes	-1.10 (-1.47 to -0.72)	7.60E-09	0.56 (0.18 to 0.95)	0.004		
Osteoarthritis of Hand						
No diagnosis	Ref.					
First episode	$0.52 \ (-0.05 \ \text{to} \ 1.08)$	0.072				
Second episode	$0.45 \ (-0.12 \ \text{to} \ 1.02)$	0.12				
Both episodes	0.60 (0.10 to 1.10)	0.018				
Osteoarthritis of						
Peripheral Joints						
No diagnosis	Ref.					
First episode	-0.40 (-0.84 to 0.03)	0.070				
Second episode	-0.26 (-0.69 to 0.17)	0.24				
Both episodes	-0.49 (-0.89 to -0.08)	0.018				
Fibromyalgia						
No diagnosis	Ref.		Ref.			
First episode	-2.04 (-3.54 to -0.54)	0.008	1.86 (0.11 to 3.62)	0.037		
Second episode	-1.16 (-2.14 to -0.19)	0.020	-1.10 (-2.20 to 0.00)	0.050		
Both episodes	-1.57 (-2.48 to -0.66)	6.90E-04	-0.05 (-0.97 to 0.86)	0.91		
Gout	, , ,		, ,			
No diagnosis	Ref.		Ref.			
First episode	0.46 (-0.78 to 1.71)	0.47	-0.99 (-2.40 to 0.43)	0.17		
Second episode	0.19 (-0.95 to 1.33)	0.74	-1.73 (-3.02 to -0.45)	0.008		
Both episodes	0.22 (-0.56 to 1.00)	0.58	-0.14 (-0.92 to 0.63)	0.72		
Crystal Arthropathies	` '		, , , , , ,			

No diagnosis	Ref.		Ref.	
First episode	-0.29 (-0.94 to 0.35)	0.37	0.10 (-0.65 to 0.84)	0.80
Second episode	0.01 (-0.63 to 0.65)	0.97	-0.86 (-1.60 to -0.11)	0.024
Both episodes	-1.12 (-1.70 to -0.55)	1.20E-04	0.74 (0.15 to 1.34)	0.015
Other non-Inflammatory	1.12 (1.10 to 0.00)	1.202 04	0.14 (0.10 10 1.04)	0.010
Diseases				
No diagnosis	Ref.		Ref.	
First episode	-1.75 (-3.10 to -0.41)	0.010	-0.09 (-1.63 to 1.45)	0.91
Second episode	-0.34 (-1.36 to 0.69)	0.52	-2.11 (-3.29 to -0.94)	4.00E-04
Both episodes	-0.54 (-1.50 to 0.59) -1.85 (-3.16 to -0.55)	0.02	0.94 (-0.49 to 2.37)	0.20
Chronic Polyarthritis	-1.00 (-3.10 to -0.00)	0.005	0.94 (-0.49 to 2.51)	0.20
No diagnosis	Ref.		Ref.	
First episode	0.10 (-0.74 to 0.94)	0.82	-1.51 (-2.48 to -0.55)	0.002
Second episode	-0.27 (-0.85 to 0.30)	0.32	-0.65 (-1.30 to 0.00)	0.052
Both episodes	-0.27 (-0.35 to 0.36) -0.73 (-1.20 to -0.26)	0.002	0.78 (0.33 to 1.23)	7.20E-04
Axial Neuropathy	-0.75 (-1.20 to -0.20)	0.002	0.76 (0.99 to 1.29)	1.20L-04
No diagnosis	Ref.		Ref.	
First episode	-0.73 (-1.50 to 0.05)	0.065	0.54 (-0.36 to 1.44)	0.24
Second episode	-0.73 (-1.30 to 0.03) -0.13 (-0.78 to 0.52)	0.70	-0.74 (-1.50 to 0.02)	0.24 0.055
Both episodes	-0.13 (-0.78 to 0.32) -1.75 (-2.42 to -1.08)	2.80E-07	0.80 (0.11 to 1.49)	0.033 0.023
No diagnosis	-1.75 (-2.42 to -1.06)	2.00E-07	0.00 (0.11 to 1.49)	0.023
No diagnosis	Ref.			
First episode	0.39 (0.10 to 0.68)	0.009		
Second episode	0.39 (0.10 to 0.08) 0.22 (-0.21 to 0.66)	0.009 0.32		
Both episodes	0.40 (0.01 to 0.78)	0.32 0.044		
Osteoporosis	0.40 (0.01 to 0.76)	0.044		
No diagnosis	Ref.		Ref.	
_	1.11 (0.00 to 2.22)	0.050	-1.66 (-2.95 to -0.36)	0.012
Hiret onicodo			-1.00 (-2.30 (0 -0.30)	0.014
First episode	,		` '	
Second episode	-0.91 (-1.80 to -0.02)	0.044	1.73 (0.71 to 2.74)	8.50E-04
Second episode Both episodes	,		` '	
Second episode Both episodes Tendinitis (Lower	-0.91 (-1.80 to -0.02)	0.044	1.73 (0.71 to 2.74)	8.50E-04
Second episode Both episodes Tendinitis (Lower Extremities)	-0.91 (-1.80 to -0.02) 0.89 (0.10 to 1.67)	0.044	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65)	8.50E-04
Second episode Both episodes Tendinitis (Lower Extremities) No diagnosis	-0.91 (-1.80 to -0.02) 0.89 (0.10 to 1.67) Ref.	0.044 0.026	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65) Ref.	8.50E-04 0.69
Second episode Both episodes Tendinitis (Lower Extremities) No diagnosis First episode	-0.91 (-1.80 to -0.02) 0.89 (0.10 to 1.67) Ref. 0.42 (-0.03 to 0.87)	0.044 0.026 0.065	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65) Ref. -0.61 (-1.13 to -0.08)	8.50E-04 0.69 0.024
Second episode Both episodes Tendinitis (Lower Extremities) No diagnosis First episode Second episode	-0.91 (-1.80 to -0.02) 0.89 (0.10 to 1.67) Ref. 0.42 (-0.03 to 0.87) 0.26 (-0.16 to 0.69)	0.044 0.026 0.065 0.23	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65) Ref0.61 (-1.13 to -0.08) 0.13 (-0.36 to 0.62)	8.50E-04 0.69 0.024 0.60
Second episode Both episodes Tendinitis (Lower Extremities) No diagnosis First episode Second episode Both episodes	-0.91 (-1.80 to -0.02) 0.89 (0.10 to 1.67) Ref. 0.42 (-0.03 to 0.87) 0.26 (-0.16 to 0.69) 0.21 (-0.20 to 0.61)	0.044 0.026 0.065 0.23 0.32	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65) Ref. -0.61 (-1.13 to -0.08)	8.50E-04 0.69 0.024
Second episode Both episodes Tendinitis (Lower Extremities) No diagnosis First episode Second episode Both episodes Diabetes mellitus	-0.91 (-1.80 to -0.02) 0.89 (0.10 to 1.67) Ref. 0.42 (-0.03 to 0.87) 0.26 (-0.16 to 0.69) 0.21 (-0.20 to 0.61) -0.33 (-0.63 to -0.03)	0.044 0.026 0.065 0.23 0.32 0.030	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65) Ref0.61 (-1.13 to -0.08) 0.13 (-0.36 to 0.62)	8.50E-04 0.69 0.024 0.60
Second episode Both episodes Tendinitis (Lower Extremities) No diagnosis First episode Second episode Both episodes Diabetes mellitus Anticoagulant	Ref. 0.42 (-0.03 to 0.87) 0.26 (-0.16 to 0.69) 0.21 (-0.20 to 0.61) -0.33 (-0.63 to -0.03) -1.18 (-1.62 to -0.74)	0.044 0.026 0.065 0.23 0.32 0.030 1.30E-07	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65) Ref0.61 (-1.13 to -0.08) 0.13 (-0.36 to 0.62)	8.50E-04 0.69 0.024 0.60
Second episode Both episodes Tendinitis (Lower Extremities) No diagnosis First episode Second episode Both episodes Diabetes mellitus Anticoagulant Cerebrovascular disease	-0.91 (-1.80 to -0.02) 0.89 (0.10 to 1.67) Ref. 0.42 (-0.03 to 0.87) 0.26 (-0.16 to 0.69) 0.21 (-0.20 to 0.61) -0.33 (-0.63 to -0.03) -1.18 (-1.62 to -0.74) -1.07 (-1.73 to -0.41)	0.044 0.026 0.065 0.23 0.32 0.030 1.30E-07 0.002	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65) Ref0.61 (-1.13 to -0.08) 0.13 (-0.36 to 0.62)	8.50E-04 0.69 0.024 0.60
Second episode Both episodes Tendinitis (Lower Extremities) No diagnosis First episode Second episode Both episodes Diabetes mellitus Anticoagulant Cerebrovascular disease Other respiratory diseases	-0.91 (-1.80 to -0.02) 0.89 (0.10 to 1.67) Ref. 0.42 (-0.03 to 0.87) 0.26 (-0.16 to 0.69) 0.21 (-0.20 to 0.61) -0.33 (-0.63 to -0.03) -1.18 (-1.62 to -0.74) -1.07 (-1.73 to -0.41) -0.98 (-1.61 to -0.34)	0.044 0.026 0.065 0.23 0.32 0.030 1.30E-07 0.002 0.003	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65) Ref0.61 (-1.13 to -0.08) 0.13 (-0.36 to 0.62)	8.50E-04 0.69 0.024 0.60
Second episode Both episodes Tendinitis (Lower Extremities) No diagnosis First episode Second episode Both episodes Diabetes mellitus Anticoagulant Cerebrovascular disease Other respiratory diseases Other colon diseases	Ref. 0.42 (-0.03 to 0.87) 0.26 (-0.16 to 0.69) 0.21 (-0.20 to 0.61) -0.33 (-0.63 to -0.03) -1.18 (-1.62 to -0.74) -1.07 (-1.73 to -0.41) -0.98 (-1.61 to -0.34) -0.61 (-1.07 to -0.16)	0.044 0.026 0.065 0.23 0.32 0.030 1.30E-07 0.002 0.003 0.008	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65) Ref0.61 (-1.13 to -0.08) 0.13 (-0.36 to 0.62)	8.50E-04 0.69 0.024 0.60
Second episode Both episodes Tendinitis (Lower Extremities) No diagnosis First episode Second episode Both episodes Diabetes mellitus Anticoagulant Cerebrovascular disease Other respiratory diseases Other colon diseases Pregnancy	Ref. 0.42 (-0.03 to 0.87) 0.26 (-0.16 to 0.69) 0.21 (-0.20 to 0.61) -0.33 (-0.63 to -0.03) -1.18 (-1.62 to -0.74) -1.07 (-1.73 to -0.41) -0.98 (-1.61 to -0.34) -0.61 (-1.07 to -0.16) 0.76 (0.19 to 1.33)	0.044 0.026 0.065 0.23 0.32 0.030 1.30E-07 0.002 0.003 0.008 0.009	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65) Ref0.61 (-1.13 to -0.08) 0.13 (-0.36 to 0.62)	8.50E-04 0.69 0.024 0.60
Second episode Both episodes Tendinitis (Lower Extremities) No diagnosis First episode Second episode Both episodes Diabetes mellitus Anticoagulant Cerebrovascular disease Other respiratory diseases Other colon diseases Pregnancy Benign breast tumor	Ref. 0.42 (-0.03 to 0.87) 0.26 (-0.16 to 0.69) 0.21 (-0.20 to 0.61) -0.33 (-0.63 to -0.03) -1.18 (-1.62 to -0.74) -1.07 (-1.73 to -0.41) -0.98 (-1.61 to -0.34) -0.61 (-1.07 to -0.16) 0.76 (0.19 to 1.33) 0.88 (0.09 to 1.67)	0.044 0.026 0.065 0.23 0.32 0.030 1.30E-07 0.002 0.003 0.008 0.009 0.030	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65) Ref0.61 (-1.13 to -0.08) 0.13 (-0.36 to 0.62)	8.50E-04 0.69 0.024 0.60
Second episode Both episodes Tendinitis (Lower Extremities) No diagnosis First episode Second episode Both episodes Diabetes mellitus Anticoagulant Cerebrovascular disease Other respiratory diseases Other colon diseases Pregnancy Benign breast tumor Neurologic disease	Ref. 0.42 (-0.03 to 0.87) 0.26 (-0.16 to 0.69) 0.21 (-0.20 to 0.61) -0.33 (-0.63 to -0.03) -1.18 (-1.62 to -0.74) -1.07 (-1.73 to -0.41) -0.98 (-1.61 to -0.34) -0.61 (-1.07 to -0.16) 0.76 (0.19 to 1.33) 0.88 (0.09 to 1.67) -2.13 (-2.56 to -1.70)	0.044 0.026 0.065 0.23 0.32 0.030 1.30E-07 0.002 0.003 0.008 0.009 0.030 2.90E-22	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65) Ref0.61 (-1.13 to -0.08) 0.13 (-0.36 to 0.62)	8.50E-04 0.69 0.024 0.60
Second episode Both episodes Tendinitis (Lower Extremities) No diagnosis First episode Second episode Both episodes Diabetes mellitus Anticoagulant Cerebrovascular disease Other respiratory diseases Other colon diseases Pregnancy Benign breast tumor Neurologic disease Depression	Ref. 0.42 (-0.03 to 0.87) 0.26 (-0.16 to 0.69) 0.21 (-0.20 to 0.61) -0.33 (-0.63 to -0.03) -1.18 (-1.62 to -0.74) -1.07 (-1.73 to -0.41) -0.98 (-1.61 to -0.34) -0.61 (-1.07 to -0.16) 0.76 (0.19 to 1.33) 0.88 (0.09 to 1.67) -2.13 (-2.56 to -1.70) -0.69 (-1.05 to -0.34)	0.044 0.026 0.065 0.23 0.32 0.030 1.30E-07 0.002 0.003 0.008 0.009 0.030 2.90E-22 1.30E-04	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65) Ref0.61 (-1.13 to -0.08) 0.13 (-0.36 to 0.62)	8.50E-04 0.69 0.024 0.60
Second episode Both episodes Tendinitis (Lower Extremities) No diagnosis First episode Second episode Both episodes Diabetes mellitus Anticoagulant Cerebrovascular disease Other respiratory diseases Other colon diseases Pregnancy Benign breast tumor Neurologic disease Depression Viral hepatitis	Ref. 0.42 (-0.03 to 0.87) 0.26 (-0.16 to 0.69) 0.21 (-0.20 to 0.61) -0.33 (-0.63 to -0.03) -1.18 (-1.62 to -0.74) -1.07 (-1.73 to -0.41) -0.98 (-1.61 to -0.34) -0.61 (-1.07 to -0.16) 0.76 (0.19 to 1.33) 0.88 (0.09 to 1.67) -2.13 (-2.56 to -1.70) -0.69 (-1.05 to -0.34) -0.95 (-1.63 to -0.26)	0.044 0.026 0.065 0.23 0.32 0.030 1.30E-07 0.002 0.003 0.008 0.009 0.030 2.90E-22 1.30E-04 0.007	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65) Ref0.61 (-1.13 to -0.08) 0.13 (-0.36 to 0.62)	8.50E-04 0.69 0.024 0.60
Second episode Both episodes Tendinitis (Lower Extremities) No diagnosis First episode Second episode Both episodes Diabetes mellitus Anticoagulant Cerebrovascular disease Other respiratory diseases Other colon diseases Pregnancy Benign breast tumor Neurologic disease Depression Viral hepatitis Other infection	Ref. 0.42 (-0.03 to 0.87) 0.26 (-0.16 to 0.69) 0.21 (-0.20 to 0.61) -0.33 (-0.63 to -0.03) -1.18 (-1.62 to -0.74) -1.07 (-1.73 to -0.41) -0.98 (-1.61 to -0.34) -0.61 (-1.07 to -0.16) 0.76 (0.19 to 1.33) 0.88 (0.09 to 1.67) -2.13 (-2.56 to -1.70) -0.69 (-1.05 to -0.34) -0.95 (-1.63 to -0.26) -0.71 (-1.25 to -0.18)	0.044 0.026 0.065 0.23 0.32 0.030 1.30E-07 0.002 0.003 0.008 0.009 0.030 2.90E-22 1.30E-04 0.007 0.009	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65) Ref0.61 (-1.13 to -0.08) 0.13 (-0.36 to 0.62)	8.50E-04 0.69 0.024 0.60
Second episode Both episodes Tendinitis (Lower Extremities) No diagnosis First episode Second episode Both episodes Diabetes mellitus Anticoagulant Cerebrovascular disease Other respiratory diseases Other colon diseases Pregnancy Benign breast tumor Neurologic disease Depression Viral hepatitis Other infection Paracetamol	Ref. 0.42 (-0.03 to 0.87) 0.26 (-0.16 to 0.69) 0.21 (-0.20 to 0.61) -0.33 (-0.63 to -0.03) -1.18 (-1.62 to -0.74) -1.07 (-1.73 to -0.41) -0.98 (-1.61 to -0.34) -0.61 (-1.07 to -0.16) 0.76 (0.19 to 1.33) 0.88 (0.09 to 1.67) -2.13 (-2.56 to -1.70) -0.69 (-1.05 to -0.34) -0.95 (-1.63 to -0.26) -0.71 (-1.25 to -0.18) -0.82 (-1.27 to -0.37)	0.044 0.026 0.065 0.23 0.32 0.030 1.30E-07 0.002 0.003 0.008 0.009 0.030 2.90E-22 1.30E-04 0.007 0.009 3.40E-04	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65) Ref0.61 (-1.13 to -0.08) 0.13 (-0.36 to 0.62)	8.50E-04 0.69 0.024 0.60
Second episode Both episodes Tendinitis (Lower Extremities) No diagnosis First episode Second episode Both episodes Diabetes mellitus Anticoagulant Cerebrovascular disease Other respiratory diseases Other colon diseases Pregnancy Benign breast tumor Neurologic disease Depression Viral hepatitis Other infection Paracetamol Knee surgery prosthesis	Ref. 0.42 (-0.03 to 0.87) 0.26 (-0.16 to 0.69) 0.21 (-0.20 to 0.61) -0.33 (-0.63 to -0.03) -1.18 (-1.62 to -0.74) -1.07 (-1.73 to -0.41) -0.98 (-1.61 to -0.34) -0.61 (-1.07 to -0.16) 0.76 (0.19 to 1.33) 0.88 (0.09 to 1.67) -2.13 (-2.56 to -1.70) -0.69 (-1.05 to -0.34) -0.95 (-1.63 to -0.26) -0.71 (-1.25 to -0.18) -0.82 (-1.27 to -0.37) -0.77 (-1.51 to -0.03)	0.044 0.026 0.065 0.23 0.32 0.030 1.30E-07 0.002 0.003 0.008 0.009 0.030 2.90E-22 1.30E-04 0.007 0.009 3.40E-04 0.042	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65) Ref0.61 (-1.13 to -0.08) 0.13 (-0.36 to 0.62)	8.50E-04 0.69 0.024 0.60
Second episode Both episodes Tendinitis (Lower Extremities) No diagnosis First episode Second episode Both episodes Diabetes mellitus Anticoagulant Cerebrovascular disease Other respiratory diseases Other colon diseases Pregnancy Benign breast tumor Neurologic disease Depression Viral hepatitis Other infection Paracetamol	Ref. 0.42 (-0.03 to 0.87) 0.26 (-0.16 to 0.69) 0.21 (-0.20 to 0.61) -0.33 (-0.63 to -0.03) -1.18 (-1.62 to -0.74) -1.07 (-1.73 to -0.41) -0.98 (-1.61 to -0.34) -0.61 (-1.07 to -0.16) 0.76 (0.19 to 1.33) 0.88 (0.09 to 1.67) -2.13 (-2.56 to -1.70) -0.69 (-1.05 to -0.34) -0.95 (-1.63 to -0.26) -0.71 (-1.25 to -0.18) -0.82 (-1.27 to -0.37)	0.044 0.026 0.065 0.23 0.32 0.030 1.30E-07 0.002 0.003 0.008 0.009 0.030 2.90E-22 1.30E-04 0.007 0.009 3.40E-04	1.73 (0.71 to 2.74) -0.17 (-0.99 to 0.65) Ref0.61 (-1.13 to -0.08) 0.13 (-0.36 to 0.62)	8.50E-04 0.69 0.024 0.60

CI: Confidence interval; Coef: Coefficient; Ref: Reference category

Supplementary Table 7.4: Bivariable linear regression mixed model to assess the influence of demographic and clinical related variables in the difference in health-related quality of life between the last and the first visit of an episode, in patients attending a rheumatology outpatient clinic

Variable	Main effect diag	nosis	Main effect Episode		Interaction		- AIC
variable	Coef. (95% CI)	p-value	Coef. (95% CI)	p-value	Coef. (95% CI)	p-value	- AIC
Readmission episode			-0.84 (-1.28 to -0.40)	1.70E-04			9226.46
Ostheoarthritis of							
peripheral joints							
No diagnosis	Ref.						
In the first episode	$0.42 \ (-1.75 \ \text{to} \ 2.59)$	0.71					9244.01
In the second episode	-0.46 (-2.17 to 1.25)	0.6					
In both episodes	-0.12 (-1.26 to 1.01)	0.83					
Ostheoarthritis of							
peripheral joints							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-1.38 (-4.23 to 1.46)	0.34	-1.04 (-1.50 to -0.58)	9.77E-06	3.59 (-0.10 to 7.29)	0.057	9229.92
In the second episode	-1.49 (-3.73 to 0.75)	0.19			2.07 (-0.83 to 4.98)	0.16	
In both episodes	-0.95 (-2.42 to 0.52)	0.21			1.65 (-0.23 to 3.52)	0.085	
Knee Osteoarthritis							
No diagnosis	Ref.						
In the first episode	-0.02 (-1.85 to 1.80)	0.98					9241.24
In the second episode	$0.80 \ (-0.32 \ \text{to} \ 1.92)$	0.16					
In both episodes	$0.62 \ (-0.35 \ \text{to} \ 1.58)$	0.21					
Knee Osteoarthritis							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-0.73 (-3.12 to 1.65)	0.55	-1.01 (-1.49 to -0.53)	3.52 E-05	$1.43 \ (-1.65 \ \text{to} \ 4.51)$	0.36	9230.52
In the second episode	-0.16 (-1.63 to 1.31)	0.83			1.92 (0.02 to 3.82)	0.047	
In both episodes	0.45 (-0.80 to 1.70)	0.48			0.34 (-1.24 to 1.91)	0.67	

Neck Pain							
No diagnosis	Ref.						
In the first episode	-0.17 (-1.92 to 1.58)	0.85					9244.36
In the second episode	-0.16 (-1.62 to 1.31)	0.83					
In both episodes	0.22 (-1.72 to 2.15)	0.83					
Neck Pain	·						
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-0.70 (-3.00 to 1.60)	0.55	-0.92 (-1.38 to -0.46)	7.92 E-05	1.04 (-1.95 to 4.04)	0.5	9236.89
In the second episode	-0.69 (-2.60 to 1.23)	0.48			1.06 (-1.43 to 3.54)	0.4	
In both episodes	-0.27 (-2.81 to 2.26)	0.83			0.98 (-2.31 to 4.28)	0.56	
Pain in Joint							
No diagnosis	Ref.						
In the first episode	-0.02 (-1.07 to 1.02)	0.96					9242.78
In the second episode	-0.09 (-1.26 to 1.09)	0.89					
In both episodes	-0.74 (-1.86 to 0.37)	0.19					
Pain in Joint							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-1.09 (-2.46 to 0.28)	0.12	-0.95 (-1.44 to -0.47)	1.10E-04	2.13 (0.36 to 3.90)	0.019	9230.86
In the second episode	$0.04 \ (-1.50 \ \text{to} \ 1.58)$	0.96			-0.26 (-2.24 to 1.73)	0.8	
In both episodes	-0.60 (-2.05 to 0.85)	0.42			-0.28 (-2.15 to 1.58)	0.76	
Back Pain							
No diagnosis	Ref.						
In the first episode	-0.32 (-1.55 to 0.92)	0.61					9243.79
In the second episode	-0.32 (-1.34 to 0.70)	0.54					
In both episodes	$0.12 \ (-0.81 \ \text{to} \ 1.05)$	0.8					
Back Pain							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		

In the first episode	-0.08 (-1.69 to 1.54)	0.93	-0.90 (-1.39 to -0.41)	3.45E-04	-0.49 (-2.58 to 1.61)	0.65	9236.65
In the second episode	-0.70 (-2.04 to 0.64)	0.3			$0.76 \ (-0.99 \ \text{to} \ 2.51)$	0.4	
In both episodes	-0.03 (-1.25 to 1.18)	0.96			$0.29 \ (-1.27 \ \text{to} \ 1.86)$	0.71	
Axial Neuropathy							
No diagnosis	Ref.						
In the first episode	-0.31 (-2.30 to 1.68)	0.76					9242.96
In the second episode	$0.53 \ (-0.81 \ \text{to} \ 1.87)$	0.44					
In both episodes	$0.74 \ (-0.83 \ \text{to} \ 2.32)$	0.36					
Axial Neuropathy							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-0.10 (-2.71 to 2.51)	0.94	-0.82 (-1.27 to -0.36)	4.42E-04	-0.44 (-3.83 to 2.96)	0.8	9224.23
In the second episode	-0.65 (-2.40 to 1.10)	0.47			2.35 (0.08 to 4.61)	0.042	
In both episodes	2.66 (0.61 to 4.71)	0.011			-3.83 (-6.46 to -1.20)	0.004	
Peripheral Neuropathy	•		•				
No diagnosis	Ref.						
In the first episode	1.59 (-0.34 to 3.53)	0.11					9241.62
In the second episode	-0.18 (-1.78 to 1.41)	0.82					
In both episodes	-0.34 (-1.93 to 1.24)	0.67					
Peripheral Neuropathy	,						
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	0.59 (-1.95 to 3.13)	0.65	-0.92 (-1.38 to -0.47)	7.34E-05	2.01 (-1.28 to 5.30)	0.23	9233.43
In the second episode	-0.38 (-2.47 to 1.70)	0.72	,		0.40 (-2.30 to 3.10)	0.77	
In both episodes	-0.91 (-2.97 to 1.15)	0.39			1.13 (-1.51 to 3.77)	0.4	
No Diagnoses	,				,		
No diagnosis	Ref.						
In the first episode	-0.20 (-1.04 to 0.63)	0.63					9242.54
In the second episode	-0.84 (-2.28 to 0.60)	0.26					
In both episodes	-0.48 (-1.65 to 0.69)	0.42					

No Diagnoses							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-0.56 (-1.64 to 0.53)	0.32	-1.04 (-1.53 to -0.55)	3.27E-05	0.70 (-0.71 to 2.11)	0.33	9232.98
In the second episode	-1.62 (-3.50 to 0.27)	0.09			1.57 (-0.87 to 4.01)	0.21	
In both episodes	-1.07 (-2.59 to 0.44)	0.16			1.18 (-0.74 to 3.11)	0.23	
Osteoporosis							
No diagnosis	Ref.						
In the first episode	-0.73 (-3.01 to 1.55)	0.53					9243.76
In the second episode	-0.60 (-2.61 to 1.41)	0.56					
In both episodes	-0.03 (-1.97 to 1.92)	0.98					
Osteoporosis							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-0.69 (-3.67 to 2.30)	0.65	-0.95 (-1.40 to -0.50)	3.28E-05	-0.08 (-3.95 to 3.80)	0.97	9231.32
In the second episode	-2.04 (-4.67 to 0.59)	0.13			2.87 (-0.54 to 6.28)	0.1	
In both episodes	-1.61 (-4.12 to 0.90)	0.21			3.17 (-0.01 to 6.34)	0.051	
Tendinitis							
No diagnosis	Ref.						
In the first episode	1.20 (-0.29 to 2.69)	0.11					9241.99
In the second episode	$0.02 \ (-1.49 \ \text{to} \ 1.53)$	0.98					
In both episodes	$0.06 \ (-1.29 \ \text{to} \ 1.42)$	0.93					
Tendinitis							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		_
In the first episode	-0.31 (-2.26 to 1.64)	0.76	-0.95 (-1.41 to -0.49)	5.43E-05	3.02 (0.49 to 5.55)	0.019	9230.29
In the second episode	0.12 (-1.86 to 2.10)	0.91			-0.21 (-2.79 to 2.37)	0.87	
In both episodes	-0.20 (-1.97 to 1.57)	0.83			$0.52 \ (-1.75 \ \text{to} \ 2.79)$	0.65	
Tendinitis (Lower Extremities)							
No diagnosis	Ref.						

In the first episode	0.31 (-1.15 to 1.77)	0.68					9244.11
In the second episode	0.13 (-0.99 to 1.26)	0.82					
In both episodes	-0.17 (-1.15 to 0.80)	0.73					
Tendinitis (Lower Extremities)	,						
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-0.30 (-2.22 to 1.62)	0.76	-0.96 (-1.44 to -0.48)	1.00E-04	1.22 (-1.27 to 3.71)	0.34	9236.1
In the second episode	0.11 (-1.36 to 1.58)	0.88			0.04 (-1.86 to 1.94)	0.97	
In both episodes	-0.61 (-1.87 to 0.64)	0.34			0.88 (-0.71 to 2.47)	0.28	
Tendinitis (Upper Extremities)	·				,		
No diagnosis	Ref.						
In the first episode	$0.20 \ (-0.98 \ \text{to} \ 1.37)$	0.74					9243.28
In the second episode	0.51 (-0.49 to 1.51)	0.32					
In both episodes	$0.22 \ (-0.52 \ \text{to} \ 0.95)$	0.56					
Tendinitis (Upper Extremities)							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-1.06 (-2.60 to 0.48)	0.18	-1.20 (-1.72 to -0.68)	5.45E-06	$2.51 \ (0.52 \ \text{to} \ 4.50)$	0.013	9227.96
In the second episode	0.35 (-0.96 to 1.66)	0.6			0.32 (-1.37 to 2.02)	0.71	
In both episodes	-0.42 (-1.37 to 0.53)	0.39			1.26 (0.06 to 2.46)	0.039	
Chronic polyarthritis							
No diagnosis	Ref.						
In the first episode	-0.56 (-2.19 to 1.08)	0.51					9242.7
In the second episode	$0.29 \ (-0.94 \ \text{to} \ 1.53)$	0.64					
In both episodes	-0.42 (-1.20 to 0.36)	0.3					
Chronic polyarthritis							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-0.28 (-2.41 to 1.86)	0.8	-0.58 (-1.07 to -0.09)	0.021	-0.56 (-3.32 to 2.20)	0.69	9226.69
In the second episode	0.00 (-1.61 to 1.62)	1			$0.58 \ (-1.51 \ \text{to} \ 2.66)$	0.59	

In both episodes	0.58 (-0.43 to 1.58)	0.26			-1.98 (-3.25 to -0.71)	0.002	
Crystal arthropathies							
No diagnosis	Ref.						
In the first episode	0.09 (-1.39 to 1.57)	0.9					9233.2
In the second episode	0.45 (-1.01 to 1.91)	0.55					
In both episodes	2.02 (0.84 to 3.21)	7.90E-04					
Crystal arthropathies							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-0.50 (-2.44 to 1.45)	0.62	-0.82 (-1.29 to -0.35)	5.73E-04	1.19 (-1.35 to 3.72)	0.36	9222.9
In the second episode	0.03 (-1.89 to 1.94)	0.98			0.85 (-1.64 to 3.33)	0.5	
In both episodes	2.87 (1.32 to 4.41)	2.69E-04			-1.69 (-3.68 to 0.29)	0.09	
Folic Acid							
No diagnosis	Ref.						
In the first episode	-1.00 (-3.28 to 1.28)	0.39					9242.6
In the second episode	-0.06 (-1.34 to 1.23)	0.93					
In both episodes	-0.53 (-1.45 to 0.39)	0.26					
Folic Acid							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-0.75 (-3.74 to 2.24)	0.62	-0.75 (-1.23 to -0.27)	0.002	-0.48 (-4.37 to 3.41)	0.81	9234.94
In the second episode	-0.08 (-1.76 to 1.60)	0.93			0.04 (-2.14 to 2.22)	0.97	
In both episodes	-0.03 (-1.23 to 1.16)	0.96			-0.98 (-2.51 to 0.55)	0.21	
NSAIDs Hard	, ,				,		
No diagnosis	Ref.						
In the first episode	0.87 (-0.69 to 2.42)	0.27					9242.34
In the second episode	0.58 (-1.96 to 3.13)	0.65					
In both episodes	-0.83 (-2.88 to 1.21)	0.42					
NSAIDs Hard	, , ,						
X Episode							
							

No diagnosis	Ref.		Ref.		Ref.		
In the first episode	0.19 (-1.85 to 2.22)	0.86	-0.89 (-1.34 to -0.44)	1.14E-04	1.36 (-1.28 to 4.00)	0.31	9234.91
In the second episode	$0.95 \ (-2.40 \ \text{to} \ 4.29)$	0.58			-0.72 (-5.06 to 3.62)	0.74	
In both episodes	-1.28 (-3.94 to 1.38)	0.35			0.89 (-2.53 to 4.31)	0.61	
Analgesic 1st level							
No diagnosis	Ref.						
In the first episode	$0.47 \ (-0.60 \ \text{to} \ 1.54)$	0.39					9240.22
In the second episode	0.78 (0.01 to 1.56)	0.049					
In both episodes	0.13 (-0.47 to 0.74)	0.66	-				
Analgesic 1st level							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	0.32 (-1.08 to 1.72)	0.66	-0.57 (-1.28 to 0.14)	0.11	$0.30 \ (-1.52 \ \text{to} \ 2.12)$	0.75	9231.27
In the second episode	$0.79 \ (-0.23 \ \text{to} \ 1.81)$	0.13			-0.01 (-1.33 to 1.31)	0.99	
In both episodes	$0.51 \ (-0.28 \ \text{to} \ 1.29)$	0.2			-0.74 (-1.74 to 0.26)	0.15	
SYSADOA							
No diagnosis	Ref.						
In the first episode	-0.04 (-2.07 to 1.99)	0.97					9243.55
In the second episode	-0.78 (-2.60 to 1.05)	0.4					
In both episodes	-0.59 (-2.78 to 1.61)	0.6					
SYSADOA							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-1.20 (-3.85 to 1.45)	0.38	-0.90 (-1.35 to -0.45)	8.98E-05	2.31 (-1.11 to 5.72)	0.19	9235.57
In the second episode	-1.12 (-3.51 to 1.26)	0.36			$0.68 \ (-2.40 \ \text{to} \ 3.77)$	0.66	
In both episodes	-0.75 (-3.62 to 2.12)	0.61			$0.33 \ (-3.38 \ \text{to} \ 4.04)$	0.86	
Calcium and Vitamin D							
No diagnosis	Ref.						
In the first episode	-0.40 (-1.96 to 1.16)	0.61					9241.32
In the second episode	-0.32 (-1.17 to 0.54)	0.47					

In both episodes	-0.58 (-1.23 to 0.08)	0.086					
Calcium and Vitamin D							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-1.15 (-3.20 to 0.89)	0.27	-0.81 (-1.35 to -0.26)	0.004	1.50 (-1.16 to 4.16)	0.27	9233.17
In the second episode	-0.38 (-1.51 to 0.74)	0.5			0.15 (-1.31 to 1.60)	0.84	
In both episodes	-0.36 (-1.21 to 0.49)	0.4			-0.43 (-1.51 to 0.65)	0.44	
Colchicine							
No diagnosis	Ref.						
In the first episode	0.66 (-1.49 to 2.81)	0.55					9223.82
In the second episode	0.47 (-1.14 to 2.09)	0.56					
In both episodes	3.09 (1.77 to 4.42)	4.98E-06					
Colchicine							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	0.52 (-2.31 to 3.35)	0.72	-0.78 (-1.23 to -0.32)	9.20E-04	0.29 (-3.41 to 4.00)	0.88	9215.05
In the second episode	0.38 (-1.74 to 2.51)	0.72			0.19 (-2.58 to 2.95)	0.9	
In both episodes	4.00 (2.28 to 5.71)	4.95E-06			-1.81 (-3.98 to 0.36)	0.1	
DMARDs Antimalarial							
No diagnosis	Ref.						
In the first episode	-0.08 (-1.88 to 1.73)	0.94					9243.59
In the second episode	0.54 (-0.69 to 1.77)	0.39					
In both episodes	-0.20 (-1.39 to 1.00)	0.75					
DMARDs Antimalarial	·						
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	0.44 (-1.93 to 2.82)	0.72	-0.87 (-1.34 to -0.40)	2.59E-04	-1.03 (-4.12 to 2.06)	0.51	9236.47
In the second episode	0.13 (-1.48 to 1.75)	0.87	,		0.81 (-1.27 to 2.90)	0.44	
In both episodes	-0.31 (-1.87 to 1.24)	0.69			0.24 (-1.77 to 2.25)	0.82	
DMARDs Oral Methotrexate	,				,		

No diagnosis In the first episode	Ref0.53 (-2.46 to 1.41)	0.59					9240.69
In the second episode	-0.20 (-1.56 to 1.17)	0.78					
In both episodes	-0.96 (-1.95 to 0.03)	0.057					
DMARDs Oral Methotrexate	,						
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-0.22 (-2.75 to 2.32)	0.87	-0.70 (-1.17 to -0.23)	0.004	-0.61 (-3.91 to 2.68)	0.72	9229.38
In the second episode	-0.41 (-2.19 to 1.38)	0.66	,		0.42 (-1.90 to 2.73)	0.72	
In both episodes	-0.02 (-1.31 to 1.26)	0.97			-1.86 (-3.49 to -0.23)	0.025	
Gabapentine	,				, ,		
No diagnosis	Ref.						
In the first episode	-1.66 (-3.51 to 0.20)	0.08					9241.34
In the second episode	-0.15 (-1.12 to 0.82)	0.76					
In both episodes	0.18 (-1.47 to 1.83)	0.83					
Gabapentine							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-3.06 (-5.50 to -0.62)	0.014	-0.80 (-1.27 to -0.34)	7.61E-04	2.83 (-0.35 to 6.01)	0.081	9228.6
In the second episode	0.03 (-1.24 to 1.29)	0.97			-0.35 (-1.99 to 1.29)	0.68	
In both episodes	1.47 (-0.68 to 3.62)	0.18			-2.59 (-5.36 to 0.17)	0.066	
Gastric Protector							
No diagnosis	Ref.						
In the first episode	-0.05 (-1.05 to 0.95)	0.92					9243.62
In the second episode	-0.10 (-1.01 to 0.81)	0.83					
In both episodes	-0.32 (-1.00 to 0.35)	0.35					
Gastric Protector							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-0.10 (-1.41 to 1.21)	0.88	-0.89 (-1.45 to -0.33)	0.002	$0.09 \ (-1.60 \ \text{to} \ 1.79)$	0.91	9237.43

In the second episode	-0.26 (-1.44 to 0.93)	0.67			0.31 (-1.23 to 1.84)	0.69	
In both episodes	-0.34 (-1.22 to 0.54)	0.45			0.04 (-1.08 to 1.15)	0.95	
Analgesic 2nd and 3rd level							
No diagnosis	Ref.						
In the first episode	-0.43 (-1.77 to 0.90)	0.52					9239.44
In the second episode	0.56 (-0.26 to 1.38)	0.18					
In both episodes	-0.64 (-1.48 to 0.21)	0.14					
Analgesic 2nd and 3rd level							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-1.15 (-2.90 to 0.59)	0.2	-0.73 (-1.24 to -0.22)	0.005	1.44 (-0.83 to 3.71)	0.21	9216.82
In the second episode	0.11 (-0.96 to 1.17)	0.85			0.90 (-0.49 to 2.28)	0.2	
In both episodes	$0.58 \ (-0.52 \ \text{to} \ 1.67)$	0.3			-2.44 (-3.84 to -1.04)	6.27E-04	
Other Osteoporotics							
No diagnosis	Ref.						
In the first episode	-0.51 (-2.68 to 1.66)	0.65					9238.12
In the second episode	-0.77 (-1.98 to 0.43)	0.21					
In both episodes	-1.22 (-2.27 to -0.17)	0.023					
Other Osteoporotics							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-1.08 (-3.93 to 1.77)	0.46	-0.87 (-1.34 to -0.40)	2.91E-04	1.12 (-2.59 to 4.83)	0.55	9231.36
In the second episode	-0.58 (-2.17 to 1.00)	0.47			-0.36 (-2.42 to 1.70)	0.73	
In both episodes	-1.43 (-2.79 to -0.08)	0.038			$0.43 \ (-1.29 \ \text{to} \ 2.14)$	0.63	
Benzodiazepine							
No diagnosis	Ref.						
In the first episode	-0.68 (-1.96 to 0.61)	0.3					9242.78
In the second episode	0.15 (-0.89 to 1.19)	0.77					
In both episodes	-0.49 (-1.78 to 0.80)	0.46					

Benzodiazepine							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-0.38 (-2.06 to 1.30)	0.66	-0.91 (-1.39 to -0.43)	1.85E-04	-0.59 (-2.77 to 1.59)	0.6	9234.94
In the second episode	-0.19 (-1.55 to 1.17)	0.78			0.68 (-1.07 to 2.44)	0.45	
In both episodes	-1.02 (-2.69 to 0.66)	0.23			1.05 (-1.10 to 3.20)	0.34	
Corticosteroids							
No diagnosis	Ref.						
In the first episode	1.25 (0.22 to 2.27)	0.017					9237.89
In the second episode	0.56 (-0.33 to 1.45)	0.22					
In both episodes	0.07 (-0.60 to 0.73)	0.84					
Corticosteroids							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	2.27 (0.92 to 3.61)	9.50E-04	-0.38 (-0.94 to 0.18)	0.19	-2.05 (-3.80 to -0.30)	0.022	9222.88
In the second episode	0.79 (-0.37 to 1.95)	0.18			-0.48 (-1.99 to 1.04)	0.54	_
In both episodes	0.71 (-0.15 to 1.56)	0.11			-1.28 (-2.37 to -0.18)	0.022	
NSAIDs							_
No diagnosis	Ref.						
In the first episode	-0.58 (-1.44 to 0.27)	0.18					9241.65
In the second episode	0.31 (-0.52 to 1.14)	0.47					
In both episodes	0.01 (-0.62 to 0.64)	0.97					
NSAIDs							
X Episode							
No diagnosis	Ref.		Ref.		Ref.		
In the first episode	-1.07 (-2.19 to 0.05)	0.06	-1.59 (-2.22 to -0.96)	7.50E-07	0.98 (-0.47 to 2.43)	0.18	9224.64
In the second episode	-0.49 (-1.57 to 0.60)	0.38			1.59 (0.18 to 3.00)	0.027	
In both episodes	-0.77 (-1.58 to 0.04)	0.063			1.56 (0.53 to 2.60)	0.003	
Other BIO	. ,				,		_
No diagnosis	Ref.						

$\geq 3^{\text{rd}}$	-1.95 (-4.73 to 0.83)	0.17			-1.87 (-5.56 to 1.83)	0.32	
2^{nd}	-0.78 (-1.84 to 0.28)	0.15	-0.82 (-1.28 to -0.35)	6.1E-04	-0.01 (-1.43 to 1.42)	0.99	9223.31
$1^{ m st}$	Ref.		Ref.		Ref.		
X Episode							
Admission-readmission pair							
$\geq 3^{\mathrm{rd}}$	-2.88 (-4.97 to -0.79)	0.007					
$2^{ m nd}$	-0.78 (-1.57 to 0.01)	0.053					9232.43
$1^{ m st}$	Ref.						
Admission-readmission pair							
Women	-0.27 (-0.86 to 0.32)	0.37					9239.7
In both episodes	-0.10 (-1.59 to 1.39)	0.89			-2.68 (-4.60 to -0.77)	0.006	
In the second episode	-0.10 (-1.27 to 1.07)	0.87			-0.19 (-1.71 to 1.34)	0.81	-
In the first episode	5.61 (3.79 to 7.44)	1.51E-09	-0.51 (-0.99 to -0.03)	0.036	-4.86 (-7.22 to -2.50)	5.61E-05	9188.37
No diagnosis	Ref.		Ref.		Ref.		
X Episode							
Other Drugs	`						
In both episodes	-1.43 (-2.58 to -0.28)	0.015					
In the second episode	-0.21 (-1.10 to 0.69)	0.65					
In the first episode	3.19 (1.80 to 4.58)	7.20E-06					9216.99
No diagnosis	Ref.						
Other Drugs	,				,		
In both episodes	-0.35 (-1.81 to 1.11)	0.64			-0.14 (-1.99 to 1.70)	0.88	
In the second episode	-0.02 (-1.48 to 1.45)	0.98	(_	0.23 (-1.67 to 2.13)	0.81	
In the first episode	-0.82 (-4.18 to 2.54)	0.63	-0.85 (-1.32 to -0.38)	4.20E-04	-0.03 (-4.37 to 4.32)	0.99	9237.42
No diagnosis	Ref.		Ref.		Ref.		
X Episode							
Other BIO	0.12 (1.00 to 0.11)	0.11					
In both episodes	-0.42 (-1.55 to 0.71)	0.47					
In the second episode	0.10 (-1.02 to 1.21)	0.87					0210.01
In the first episode	-0.83 (-3.40 to 1.73)	0.53					9243.54

Time from previous discharge							
0-2 months	Ref.						
2-12 months	$0.30 \ (-0.36 \ \text{to} \ 0.95)$	0.37					9241.14
>12 months	$0.42 \ (-0.30 \ \text{to} \ 1.14)$	0.26					
Time from previous discharge							
X Episode							
0-2 months	Ref.		Ref.		Ref.		
2-12 months	$0.40 \ (-0.46 \ \text{to} \ 1.25)$	0.36	-1.28 (-2.19 to -0.38)	0.005	-0.20 (-1.30 to 0.90)	0.72	9216.79
>12 months	-0.51 (-1.45 to 0.43)	0.29			1.85 (0.64 to 3.06)	0.003	
Number of common diagnosis							
between episodes							
None							
1	-0.33 (-1.12 to 0.45)	0.41					9242.8
2	-0.49 (-1.45 to 0.46)	0.31					
3	$0.01 \ (-1.46 \ \text{to} \ 1.48)$	0.99					
≥ 4	1.35 (-0.83 to 3.53)	0.23					
Number of common diagnosis							
between episodes							
X Episode							
None							
1	0.62 (-0.41 to 1.64)	0.24	$0.58 \ (-0.61 \ \text{to} \ 1.78)$	0.34	-1.89 (-3.21 to -0.58)	0.005	9225.49
2	0.19 (-1.05 to 1.43)	0.76			-1.37 (-2.96 to 0.23)	0.09	
3	$0.21 \ (-1.71 \ \text{to} \ 2.12)$	0.83			-0.39 (-2.88 to 2.10)	0.76	
≥ 4	$0.21 \ (-2.64 \ \text{to} \ 3.06)$	0.89			2.25 (-1.45 to 5.95)	0.23	
Rosser classification index at the	-0.56 (-0.60 to -0.52)	1.4E-166					8640.35
first visit of the episode	-0.00 (-0.00 to -0.02)	1.4L-100					0010.00
Rosser classification index at the first							
visit of the episode	-0.59 (-0.64 to -0.55)	1.5E-147	-15.03 (-23.27 to -6.80)	3.48E-04	0.15 (0.06 to 0.23)	6.31E-04	8617.63
X Episode							

Rosser classification index at the last visit of the episode	0.46 (0.42 to 0.51)	4.85E-84					8905.15
Rosser classification index at the							
last visit of the episode	$0.20 \ (0.13 \ \text{to} \ 0.27)$	2.45E-09	-45.24 (-53.66 to -36.82)	6.26E-26	$0.46 \ (0.37 \ \text{to} \ 0.54)$	2.38E-25	8796.48
X Episode							
Age at first visit of episode	0.02 (0.00 to 0.03)	0.044					9236.44
Age at first visit at the clinic	0.02 (0.00 to 0.03)	0.053					9236.76
Calendar year at first visit	-0.02 (-0.13 to 0.10)	0.8					9240.43
Anemia	3.92 (2.17 to 5.66)	1.07E-05					9221.28
Other arrhythmias	-1.75 (-3.01 to -0.49)	0.007					9233.14
Atrial fibrillation	-2.10 (-3.64 to -0.56)	0.008					9233.4
Biliary diseases	1.67 (0.49 to 2.85)	0.005					9232.82
Cholecystectomy	1.69 (0.45 to 2.92)	0.007					9233.36
Breast cancer	0.90 (-0.88 to 2.69)	0.32					9239.51
Ischemic heart disease	-1.58 (-3.03 to -0.13)	0.032					9235.92
Cataract	1.03 (-0.49 to 2.55)	0.18					9238.72
Other colon diseases	3.48 (2.12 to 4.84)	5.43E-07					9215.92
Other dermatological diseases	-0.28 (-2.21 to 1.64)	0.77					9240.41
Psoriasis	-0.52 (-2.15 to 1.10)	0.53					9240.1
Diabetes mellitus	1.57 (0.70 to 2.43)	3.76E-04					9227.94
Appendicitis	3.42 (1.73 to 5.12)	7.69E-05					9225.03
Dyslipidemia	-0.50 (-1.14 to 0.14)	0.13					9238.16
Asthma	-0.11 (-1.70 to 1.47)	0.89					9240.47
Chronic obstructive pulmonary	-0.62 (-2.75 to 1.52)	0.57					9240.17
disease	-0.02 (-2.75 to 1.52)	0.57					9240.11
Other respiratory diseases	$0.37 \ (-1.07 \ \text{to} \ 1.81)$	0.62					9240.24
Hiatal hernia	$0.83 \ (-0.50 \ \text{to} \ 2.16)$	0.22					9238.98
Gastroesophageal reflux disease	0.47 (-1.40 to 2.34)	0.62					9240.25
Gastritis	1.67 (-0.34 to 3.68)	0.1					9237.85
Pregnancy	-0.38 (-1.96 to 1.19)	0.64					9240.27

Benign breast tumor	-0.53 (-3.18 to 2.12)	0.7	
Other ovary diseases	4.72 (2.46 to 6.99)	4.40E-05	
Other uterus diseases	-0.32 (-1.81 to 1.16)	0.67	
Glaucoma	-0.32 (-1.81 to 1.10) -0.30 (-2.60 to 1.99)	0.07 0.79	
Alcoholic habit	0.31 (-1.24 to 1.85)	0.79	
Smoking habit	0.31 (-1.24 to 1.83) 0.29 (-0.91 to 1.48)	0.7 0.64	
9	` '		
Viral hepatitis	-1.14 (-3.03 to 0.75)	0.24	
Other liver disease	-0.94 (-2.91 to 1.03)	0.35	
Benign prostatic hypertrophy	0.32 (-1.52 to 2.15)	0.74	
Hypertension	-0.18 (-0.78 to 0.41)	0.55	
Other infection	-0.25 (-1.68 to 1.18)	0.73	
Other virus infection	-2.51 (-3.94 to -1.08)	5.87E-04	
Kidney failure	1.91 (-0.39 to 4.22)	0.1	
Peripheral venous insufficiency	3.64 (2.06 to 5.22)	5.95E-06	
Migraine	-0.93 (-3.20 to 1.34)	0.42	
Column surgery	1.38 (-0.91 to 3.66)	0.24	
Back pain	0.23 (-1.17 to 1.63)	0.75	
Non osteoporotic fracture	0.26 (-1.18 to 1.70)	0.72	
Osteoporosis	-1.69 (-3.20 to -0.18)	0.028	
Feet diseases	1.15 (-0.38 to 2.68)	0.14	
Knee surgery prosthesis	-1.37 (-3.48 to 0.75)	0.21	
Internal derangement of knee	1.33 (-0.66 to 3.31)	0.19	
Central peripheral systems diseases	0.09 (-1.30 to 1.48)	0.9	
Obesity	0.85 (-0.51 to 2.21)	0.22	
Other ear diseases	2.68 (0.46 to 4.90)	0.018	
Other eye diseases	-0.45 (-2.50 to 1.60)	0.67	
Other otorhinolaryngology diseases	0.53 (-1.58 to 2.64)	0.62	
Cerebrovascular disease	-3.84 (-5.93 to -1.75)	3.19E-04	

Depression -0.66 (-1.79 to 0.46) 0.25 9239.16 Hypothyroidism 1.01 (-0.11 to 2.13) 0.077 9237.37 Thyroid others -2.67 (-4.79 to -0.55) 0.014 9234.43 Thyroid ctomy 6.93 (4.69 to 9.17) 1.29E-09 9204.55 Comective tissue benign tumours -0.13 (-2.01 to 1.74) 0.89 9240.48 Other benign tumours -0.11 (-2.19 to 1.96) 0.91 9240.48 Other urological diseases -0.36 (-2.69 to 1.98) 0.76 9240.49 Non-specified valvulopathy 0.65 (-1.36 to 2.67) 0.53 9240.09 NSAIDs 1.11 (-1.12 to 3.34) 0.33 9230.54 Metamizole 1.69 (-0.52 to 3.91) 0.13 9238.54 Paracetamol -0.28 (-1.52 to 0.96) 0.66 9240.3 Tramadol 1.60 (-0.65 to 3.84) 0.16 9238.54 Antiegileptics 0.80 (1.42 to 3.02) 0.48 9240 Bijhosphonates -1.95 (-3.48 to -0.42) 6.012 9233.31 Calcium -0.37 (-1.02 to 0.28) 0.29 923	Anxiety	1.07 (-0.64 to 2.78)	0.22	9239
Thyroid others -2.67 (-4.79 to -0.55) 0.014 9234.43 Thyroidectomy 6.93 (4.69 to 9.17) 1.29F-09 9204.53 Connective tissue benign tumours -0.11 (-2.01 to 1.74) 0.89 9240.47 Other benign tumours -0.11 (-2.19 to 1.96) 0.91 9240.48 Other urological diseases -0.36 (-2.69 to 1.98) 0.76 9240.09 NSAIDs 1.11 (-1.12 to 3.34) 0.33 9239.54 Metamizole 1.69 (-0.52 to 3.91) 0.13 9238.24 Paracetamol -0.28 (-1.52 to 0.96) 0.66 9240.3 Tramadol 1.60 (-0.65 to 3.84) 0.16 9238.56 Antiaggregant -0.40 (-1.35 to 0.55) 0.41 9239.81 Antiepileptics 0.80 (-1.42 to 3.02) 0.48 9240.3 Biphosphonates -1.95 (-3.48 to -0.42) 0.012 9234.31 Calcium -0.55 (-1.58 to 0.48) 0.29 9239.39 Oral antidiabetics 1.61 (0.67 to 2.54) 7.46E-04 929.55 Statins -0.37 (-1.02 to 0.28) 0.68 9235.81 </td <td>Depression</td> <td>-0.66 (-1.79 to 0.46)</td> <td>0.25</td> <td>9239.16</td>	Depression	-0.66 (-1.79 to 0.46)	0.25	9239.16
Thyroidectomy 6.93 (4.69 to 9.17) 1.29F-09 9204.55 Connective tissue benign tumours -0.13 (-2.01 to 1.74) 0.89 9240.48 Other benign tumours -0.11 (-2.19 to 1.96) 0.91 9240.48 Other urological diseases -0.36 (-2.69 to 1.98) 0.76 9240.4 Non-specified valvulopathy 0.65 (-1.36 to 2.67) 0.53 9240.9 NSAIDs 1.11 (-1.12 to 3.34) 0.33 9238.24 Paracetamol -0.28 (-1.52 to 0.96) 0.66 9240.3 Paracetamol -0.28 (-1.52 to 0.96) 0.66 9240.3 Antiaggregant -0.40 (-1.35 to 0.55) 0.41 9238.54 Antiepileptics 0.80 (-1.42 to 3.02) 0.48 9240 Biphosphonates -1.95 (-3.48 to -0.42) 0.012 9239.31 Calcium -0.55 (-1.58 to 0.48) 0.29 9239.39 Oral antidiabetics 1.61 (0.67 to 2.54) 7.466-04 9229.19 Insulin 2.63 (1.08 to 4.18) 8.91E-04 929.29.5 Statins -0.37 (-1.02 to 0.28) 0.68 <td< td=""><td>Hypothyroidism</td><td>1.01 (-0.11 to 2.13)</td><td>0.077</td><td>9237.37</td></td<>	Hypothyroidism	1.01 (-0.11 to 2.13)	0.077	9237.37
Connective tissue benign tumour -0.13 (-2.01 to 1.74) 0.89 9240.47 Other benign tumours -0.11 (-2.19 to 1.96) 0.91 9240.48 Other urological diseases -0.36 (-2.69 to 1.98) 0.76 9240.4 Non-specified valvulopathy 0.65 (-1.36 to 2.67) 0.53 9240.09 NSAIDs 1.11 (-1.12 to 3.34) 0.33 9239.54 Metamizole 1.69 (-0.52 to 3.91) 0.13 9238.24 Paracetamol -0.28 (-1.52 to 0.96) 0.66 9240.3 Tramadol 1.60 (-0.65 to 3.84) 0.16 9238.56 Antiaggregant -0.40 (-1.35 to 0.55) 0.41 9239.81 Antiepileptics 0.80 (-1.42 to 3.02) 0.48 9240 Siphosphonates -1.95 (-3.48 to -0.42) 0.012 9234.31 Calcium -0.55 (-1.58 to 0.48) 0.29 9239.39 Oral antidiabetics 1.61 (0.67 to 2.54) 7.46E-04 9229.19 Insulin 2.63 (1.08 to 4.18) 8.91E-04 9229.19 Statins -0.37 (-1.02 to 0.28) 0.68 9239.39 </td <td>Thyroid others</td> <td>-2.67 (-4.79 to -0.55)</td> <td>0.014</td> <td>9234.43</td>	Thyroid others	-2.67 (-4.79 to -0.55)	0.014	9234.43
Other benign tumours -0.11 (-2.19 to 1.96) 0.91 9240.48 Other urological diseases -0.36 (-2.69 to 1.98) 0.76 9240.4 Non-specified valvulopathy 0.65 (-1.36 to 2.67) 0.53 9240.09 NSAIDs 1.11 (-1.12 to 3.34) 0.33 9238.24 Metamizole 1.69 (-0.52 to 3.91) 0.13 9238.24 Paracetamol -0.28 (-1.52 to 0.96) 0.66 9240.3 Tramadol 1.60 (-0.65 to 3.84) 0.16 9238.54 Antiaggregant -0.40 (-1.35 to 0.55) 0.41 9239.81 Antiepileptics 0.80 (-1.42 to 3.02) 0.48 9240 Biphosphonates -1.95 (-3.48 to -0.42) 0.012 9234.31 Calcium -0.55 (-1.58 to 0.48) 0.29 9234.31 Usual -0.55 (-1.58 to 0.48) 0.29 9239.39 Oral antidiabetics 1.61 (0.67 to 2.54) 7.46E-04 9229.19 Insulin 2.63 (1.08 to 4.18) 8.91E-04 9229.55 Statins -0.37 (-1.02 to 0.28) 0.68 9236.26	Thyroidectomy	6.93 (4.69 to 9.17)	1.29E-09	9204.55
Other urological diseases -0.36 (-2.69 to 1.98) 0.76 9240.4 Non-specified valvulopathy 0.65 (-1.36 to 2.67) 0.53 9240.09 NSAIDs 1.11 (-1.12 to 3.34) 0.33 9239.54 Metamizole 1.69 (-0.52 to 3.91) 0.13 9238.24 Paracetamol -0.28 (-1.52 to 0.96) 0.66 9240.3 Tamadol 1.60 (-0.65 to 3.84) 0.16 9238.56 Antiaggregant -0.40 (-1.35 to 0.55) 0.41 9239.81 Antiepileptics 0.80 (-1.42 to 3.02) 0.48 9240 Biphosphonates -1.95 (-3.48 to -0.42) 0.012 9234.31 Calcium -0.55 (-1.58 to 0.48) 0.29 9239.39 Oral antidiabetics 1.61 (0.67 to 2.54) 7.46E-04 9229.15 Insulin 2.63 (1.08 to 4.18) 8.91E-04 9229.15 Statins -0.37 (-1.02 to 0.28) 0.27 9239.26 Constipation medication 0.43 (-1.62 to 2.48) 0.68 9240.33 Gabapentin -1.19 (-2.71 to 0.34) 0.13 9236.36 <t< td=""><td>Connective tissue benign tumour</td><td>-0.13 (-2.01 to 1.74)</td><td>0.89</td><td>9240.47</td></t<>	Connective tissue benign tumour	-0.13 (-2.01 to 1.74)	0.89	9240.47
Non-specified valvulopathy 0.65 (-1.36 to 2.67) 0.53 9240.09 NSAIDs 1.11 (-1.12 to 3.34) 0.33 9239.54 Metamizole 1.69 (-0.52 to 3.91) 0.13 9238.24 Paracetamol -0.28 (-1.52 to 0.96) 0.66 9240.3 Tramadol 1.60 (-0.65 to 3.84) 0.16 9238.56 Antiaggregant -0.40 (-1.35 to 0.55) 0.41 9239.81 Antiepileptics 0.80 (-1.42 to 3.02) 0.48 9240 Biphosphonates -1.95 (-3.48 to -0.42) 0.012 9234.31 Calcium -0.55 (-1.58 to 0.48) 0.29 9239.39 Oral antidiabetics 1.61 (0.67 to 2.54) 7.46E-04 9229.19 Insulin 2.63 (1.08 to 4.18) 8.91E-04 9229.19 Statins -0.37 (-1.02 to 0.28) 0.27 9239.26 Constipation medication 0.43 (-1.62 to 2.48) 0.68 9240.33 Gabapentin -1.19 (-2.71 to 0.34) 0.13 9238.18 Lowering uric acid drugs 1.77 (-0.08 to 3.62) 0.061 9236.98 <	Other benign tumours	-0.11 (-2.19 to 1.96)	0.91	9240.48
NSAIDs 1.11 (-1.12 to 3.34) 0.33 9239.54 Metamizole 1.69 (-0.52 to 3.91) 0.13 9238.24 Paracetamol -0.28 (-1.52 to 0.96) 0.66 9240.3 Tramadol 1.60 (-0.65 to 3.84) 0.16 9238.56 Antiaggregant -0.40 (-1.35 to 0.55) 0.41 9238.51 Antiepileptics 0.80 (-1.42 to 3.02) 0.48 9240 Biphosphonates -1.95 (-3.48 to -0.42) 0.012 9234.31 Calcium -0.55 (-1.58 to 0.48) 0.29 9239.39 Oral antidiabetics 1.61 (0.67 to 2.54) 7.46E-04 9229.19 Insulin 2.63 (1.08 to 4.18) 8.91E-04 9229.55 Statins -0.37 (-1.02 to 0.28) 0.27 9239.26 Constipation medication 0.43 (-1.62 to 2.48) 0.68 9240.33 Gabapentin -1.19 (-2.71 to 0.34) 0.13 9238.18 Lowering uric acid drugs 1.77 (-0.08 to 3.62) 0.061 9236.98 Benign prostatic hyperplasia medication 1.09 (0.03 to 2.15) 0.044 9236.46	Other urological diseases	-0.36 (-2.69 to 1.98)	0.76	9240.4
Metamizole 1.69 (-0.52 to 3.91) 0.13 9238.24 Paracetamol -0.28 (-1.52 to 0.96) 0.66 9240.3 Tramadol 1.60 (-0.65 to 3.84) 0.16 9238.56 Antiaggregant -0.40 (-1.35 to 0.55) 0.41 9239.81 Antiepileptics 0.80 (-1.42 to 3.02) 0.48 9240 Biphosphonates -1.95 (-3.48 to -0.42) 0.012 9234.31 Calcium -0.55 (-1.58 to 0.48) 0.29 9239.39 Oral antidiabetics 1.61 (0.67 to 2.54) 7.46E-04 9229.19 Insulin 2.63 (1.08 to 4.18) 8.91E-04 9229.19 Statins -0.37 (-1.02 to 0.28) 0.27 9239.26 Constipation medication 0.43 (-1.62 to 2.48) 0.68 9240.33 Gabapentin -1.19 (-2.71 to 0.34) 0.13 9238.18 Lowering uric acid drugs 1.77 (-0.08 to 3.62) 0.061 9236.98 Benign prostatic hyperplasia medication 1.43 (-0.73 to 3.59) 0.2 9238.82 Thyroid hormone 1.09 (0.03 to 2.15) 0.044 9236.46 Angiotensin II receptor blocker -0.15 (-2.25 to -0.05)	Non-specified valvulopathy	0.65 (-1.36 to 2.67)	0.53	9240.09
Paracetamol -0.28 (-1.52 to 0.96) 0.66 9240.3 Tramadol 1.60 (-0.65 to 3.84) 0.16 9238.56 Antiaggregant -0.40 (-1.35 to 0.55) 0.41 9239.81 Antiepileptics 0.80 (-1.42 to 3.02) 0.88 9240 Biphosphonates -1.95 (-3.48 to -0.42) 0.012 9234.31 Calcium -0.55 (-1.58 to 0.48) 0.29 9239.39 Oral antidiabetics 1.61 (0.67 to 2.54) 7.46E-04 9229.19 Insulin 2.63 (1.08 to 4.18) 8.91E-04 9229.55 Statins -0.37 (-1.02 to 0.28) 0.27 9239.26 Constipation medication 0.43 (-1.62 to 2.48) 0.68 9240.33 Gabapentin -1.19 (-2.71 to 0.34) 0.13 9238.18 Lowering uric acid drugs 1.77 (-0.08 to 3.62) 0.061 9238.98 Benign prostatic hyperplasia medication 1.43 (-0.73 to 3.59) 0.2 9236.46 Angiotensin II receptor blocker -0.31 (-1.33 to 0.70) 0.55 9240.13 Beta-blocker -1.15 (-2.25 to -0.05) 0.041 9236.31 Calcium antagonist -0.42 (-1.54 to 0.6	NSAIDs	1.11 (-1.12 to 3.34)	0.33	9239.54
Tramadol 1.60 (-0.65 to 3.84) 0.16 9238.56 Antiaggregant -0.40 (-1.35 to 0.55) 0.41 9239.81 Antiepileptics 0.80 (-1.42 to 3.02) 0.48 9240 Biphosphonates -1.95 (-3.48 to -0.42) 0.012 9234.31 Calcium -0.55 (-1.58 to 0.48) 0.29 9239.39 Oral antidiabetics 1.61 (0.67 to 2.54) 7.46E-04 9229.19 Insulin 2.63 (1.08 to 4.18) 8.91E-04 9229.15 Statins -0.37 (-1.02 to 0.28) 0.27 9239.26 Constipation medication 0.43 (-1.62 to 2.48) 0.68 9240.33 Gabapentin -1.19 (-2.71 to 0.34) 0.13 9238.18 Lowering uric acid drugs 1.77 (-0.08 to 3.62) 0.061 9236.98 Benign prostatic hyperplasia medication 1.43 (-0.73 to 3.59) 0.2 9238.82 Thyroid hormone 1.09 (0.03 to 2.15) 0.044 9236.46 Angiotensin II receptor blocker -0.31 (-1.33 to 0.70) 0.55 9240.13 Beta-blocker -0.15 (-2.25 to -0.05) 0.041 9236.31 Calcium antagonist -0.42 (-1.54 to	Metamizole	1.69 (-0.52 to 3.91)	0.13	9238.24
Antiaggregant -0.40 (-1.35 to 0.55) 0.41 9239.81 Antiepileptics 0.80 (-1.42 to 3.02) 0.48 9240 Biphosphonates -1.95 (-3.48 to -0.42) 0.012 9234.31 Calcium -0.55 (-1.58 to 0.48) 0.29 9239.39 Oral antidiabetics 1.61 (0.67 to 2.54) 7.46E-04 9229.19 Insulin 2.63 (1.08 to 4.18) 8.91E-04 9229.55 Statins -0.37 (-1.02 to 0.28) 0.27 9239.26 Constipation medication 0.43 (-1.62 to 2.48) 0.68 9240.33 Gabapentin -1.19 (-2.71 to 0.34) 0.13 9236.98 Benign prostatic hyperplasia medication 1.43 (-0.73 to 3.59) 0.2 9238.28 Thyroid hormone 1.09 (0.03 to 2.15) 0.044 9236.46 Angiotensin II receptor blocker -0.31 (-1.33 to 0.70) 0.55 9240.13 Beta-blocker -1.15 (-2.25 to -0.05) 0.041 9236.31 Calcium antagonist -0.42 (-1.54 to 0.69) 0.46 9239.94	Paracetamol	-0.28 (-1.52 to 0.96)	0.66	9240.3
Antiepileptics 0.80 (-1.42 to 3.02) 0.48 Biphosphonates -1.95 (-3.48 to -0.42) 0.012 Calcium -0.55 (-1.58 to 0.48) 0.29 Oral antidiabetics 1.61 (0.67 to 2.54) 7.46E-04 Insulin 2.63 (1.08 to 4.18) 8.91E-04 Statins -0.37 (-1.02 to 0.28) 0.27 Constipation medication 0.43 (-1.62 to 2.48) 0.68 Gabapentin -1.19 (-2.71 to 0.34) 0.13 Lowering uric acid drugs 1.77 (-0.08 to 3.62) 0.061 Benign prostatic hyperplasia medication 1.43 (-0.73 to 3.59) 0.2 Thyroid hormone 1.09 (0.03 to 2.15) 0.044 Angiotensin II receptor blocker -0.31 (-1.33 to 0.70) 0.55 Beta-blocker -1.15 (-2.25 to -0.05) 0.041 Calcium antagonist -0.42 (-1.54 to 0.69) 0.46	Tramadol	1.60 (-0.65 to 3.84)	0.16	9238.56
Biphosphonates -1.95 (-3.48 to -0.42) 0.012 Calcium -0.55 (-1.58 to 0.48) 0.29 Oral antidiabetics 1.61 (0.67 to 2.54) 7.46E-04 Insulin 2.63 (1.08 to 4.18) 8.91E-04 Statins -0.37 (-1.02 to 0.28) 0.27 Constipation medication 0.43 (-1.62 to 2.48) 0.68 Gabapentin -1.19 (-2.71 to 0.34) 0.13 Lowering uric acid drugs 1.77 (-0.08 to 3.62) 0.061 Benign prostatic hyperplasia medication 1.43 (-0.73 to 3.59) 0.2 Thyroid hormone 1.09 (0.03 to 2.15) 0.044 Angiotensin II receptor blocker -0.31 (-1.33 to 0.70) 0.55 Beta-blocker -1.15 (-2.25 to -0.05) 0.041 Calcium antagonist -0.42 (-1.54 to 0.69) 0.46	Antiaggregant	-0.40 (-1.35 to 0.55)	0.41	9239.81
Calcium -0.55 (-1.58 to 0.48) 0.29 Oral antidiabetics 1.61 (0.67 to 2.54) 7.46E-04 Insulin 2.63 (1.08 to 4.18) 8.91E-04 Statins -0.37 (-1.02 to 0.28) 0.27 Constipation medication 0.43 (-1.62 to 2.48) 0.68 Gabapentin -1.19 (-2.71 to 0.34) 0.13 Lowering uric acid drugs 1.77 (-0.08 to 3.62) 0.061 Benign prostatic hyperplasia medication 1.43 (-0.73 to 3.59) 0.2 Thyroid hormone 1.09 (0.03 to 2.15) 0.044 Angiotensin II receptor blocker -0.31 (-1.33 to 0.70) 0.55 Beta-blocker -1.15 (-2.25 to -0.05) 0.041 Calcium antagonist -0.42 (-1.54 to 0.69) 0.46	Antiepileptics	$0.80 \ (-1.42 \ \text{to} \ 3.02)$	0.48	9240
Oral antidiabetics 1.61 (0.67 to 2.54) 7.46E-04 9229.19 Insulin 2.63 (1.08 to 4.18) 8.91E-04 9229.55 Statins -0.37 (-1.02 to 0.28) 0.27 9239.26 Constipation medication 0.43 (-1.62 to 2.48) 0.68 9240.33 Gabapentin -1.19 (-2.71 to 0.34) 0.13 9238.18 Lowering uric acid drugs 1.77 (-0.08 to 3.62) 0.061 9236.98 Benign prostatic hyperplasia medication 1.43 (-0.73 to 3.59) 0.2 9238.82 Thyroid hormone 1.09 (0.03 to 2.15) 0.044 9236.46 Angiotensin II receptor blocker -0.31 (-1.33 to 0.70) 0.55 9240.13 Beta-blocker -1.15 (-2.25 to -0.05) 0.041 9236.31 Calcium antagonist -0.42 (-1.54 to 0.69) 0.46 9239.94	Biphosphonates	-1.95 (-3.48 to -0.42)	0.012	9234.31
Insulin 2.63 (1.08 to 4.18) 8.91E-04 Statins -0.37 (-1.02 to 0.28) 0.27 Constipation medication 0.43 (-1.62 to 2.48) 0.68 Gabapentin -1.19 (-2.71 to 0.34) 0.13 Lowering uric acid drugs 1.77 (-0.08 to 3.62) 0.061 Benign prostatic hyperplasia medication 1.43 (-0.73 to 3.59) 0.2 Thyroid hormone 1.09 (0.03 to 2.15) 0.044 Angiotensin II receptor blocker -0.31 (-1.33 to 0.70) 0.55 Beta-blocker -1.15 (-2.25 to -0.05) 0.041 Calcium antagonist -0.42 (-1.54 to 0.69) 0.46	Calcium	-0.55 (-1.58 to 0.48)	0.29	9239.39
Statins -0.37 (-1.02 to 0.28) 0.27 Constipation medication 0.43 (-1.62 to 2.48) 0.68 Gabapentin -1.19 (-2.71 to 0.34) 0.13 Lowering uric acid drugs 1.77 (-0.08 to 3.62) 0.061 Benign prostatic hyperplasia medication 1.43 (-0.73 to 3.59) 0.2 Thyroid hormone 1.09 (0.03 to 2.15) 0.044 Angiotensin II receptor blocker -0.31 (-1.33 to 0.70) 0.55 Beta-blocker -1.15 (-2.25 to -0.05) 0.041 Calcium antagonist -0.42 (-1.54 to 0.69) 0.46	Oral antidiabetics	1.61 (0.67 to 2.54)	7.46E-04	9229.19
Constipation medication 0.43 (-1.62 to 2.48) 0.68 9240.33 Gabapentin -1.19 (-2.71 to 0.34) 0.13 9238.18 Lowering uric acid drugs 1.77 (-0.08 to 3.62) 0.061 9236.98 Benign prostatic hyperplasia medication 1.43 (-0.73 to 3.59) 0.2 9238.82 Thyroid hormone 1.09 (0.03 to 2.15) 0.044 9236.46 Angiotensin II receptor blocker -0.31 (-1.33 to 0.70) 0.55 9240.13 Beta-blocker -1.15 (-2.25 to -0.05) 0.041 9236.31 Calcium antagonist -0.42 (-1.54 to 0.69) 0.46 9239.94	Insulin	2.63 (1.08 to 4.18)	8.91E-04	9229.55
Gabapentin -1.19 (-2.71 to 0.34) 0.13 Lowering uric acid drugs 1.77 (-0.08 to 3.62) 0.061 Benign prostatic hyperplasia medication 1.43 (-0.73 to 3.59) 0.2 Thyroid hormone 1.09 (0.03 to 2.15) 0.044 Angiotensin II receptor blocker -0.31 (-1.33 to 0.70) 0.55 Beta-blocker -1.15 (-2.25 to -0.05) 0.041 Calcium antagonist -0.42 (-1.54 to 0.69) 0.46	Statins	-0.37 (-1.02 to 0.28)	0.27	9239.26
Lowering uric acid drugs 1.77 (-0.08 to 3.62) 0.061 Benign prostatic hyperplasia medication 1.43 (-0.73 to 3.59) 0.2 Thyroid hormone 1.09 (0.03 to 2.15) 0.044 Angiotensin II receptor blocker -0.31 (-1.33 to 0.70) 0.55 Beta-blocker -1.15 (-2.25 to -0.05) 0.041 Calcium antagonist -0.42 (-1.54 to 0.69) 0.46	Constipation medication	$0.43 \ (-1.62 \ \text{to} \ 2.48)$	0.68	9240.33
Benign prostatic hyperplasia medication 1.43 (-0.73 to 3.59) 0.2 Thyroid hormone 1.09 (0.03 to 2.15) 0.044 Angiotensin II receptor blocker -0.31 (-1.33 to 0.70) 0.55 Beta-blocker -1.15 (-2.25 to -0.05) 0.041 Calcium antagonist -0.42 (-1.54 to 0.69) 0.46	Gabapentin	-1.19 (-2.71 to 0.34)	0.13	9238.18
medication 1.43 (-0.73 to 3.59) 0.2 Thyroid hormone 1.09 (0.03 to 2.15) 0.044 Angiotensin II receptor blocker -0.31 (-1.33 to 0.70) 0.55 Beta-blocker -1.15 (-2.25 to -0.05) 0.041 Calcium antagonist -0.42 (-1.54 to 0.69) 0.46	Lowering uric acid drugs	1.77 (-0.08 to 3.62)	0.061	9236.98
medication 7 Thyroid hormone 1.09 (0.03 to 2.15) 0.044 Angiotensin II receptor blocker -0.31 (-1.33 to 0.70) 0.55 Beta-blocker -1.15 (-2.25 to -0.05) 0.041 Calcium antagonist -0.42 (-1.54 to 0.69) 0.46	9 i vi i	1.43 (-0.73 to 3.59)	0.2	0238 82
Angiotensin II receptor blocker -0.31 (-1.33 to 0.70) 0.55 Beta-blocker -1.15 (-2.25 to -0.05) 0.041 Calcium antagonist -0.42 (-1.54 to 0.69) 0.46		1.40 (-0.10 00 0.00)		
Beta-blocker -1.15 (-2.25 to -0.05) 0.041 Calcium antagonist -0.42 (-1.54 to 0.69) 0.46 9239.94	Thyroid hormone	,		
Calcium antagonist -0.42 (-1.54 to 0.69) 0.46	· .	,		
		,		
D_{1}^{*} 000 (174 + 007) 0094	Calcium antagonist	,	0.46	9239.94
Diuretic -0.90 (-1.74 to -0.07) 0.034 9236.03	Diuretic	-0.90 (-1.74 to -0.07)	0.034	9236.03

Other non-specified antihypertensive drugs	-0.54 (-2.42 to 1.34)	0.58	924
Angiotensin-converting-enzyme inhibitor	-0.93 (-1.81 to -0.05)	0.039	925
Ocular hypertension medication	-0.24 (-2.65 to 2.18)	0.85	924
Proton-pump inhibitor medication	-0.36 (-1.11 to 0.39)	0.34	92
Bronchodilator	$0.21 \ (-1.36 \ \text{to} \ 1.78)$	0.8	924
Inhaled corticosteroid	0.10 (-1.87 to 2.07)	0.92	924
Antidepressant medication	-1.06 (-1.99 to -0.13)	0.026	923
Benzodiazepine	-0.39 (-1.34 to 0.55)	0.41	923
Symptomatic slow action drugs for osteoarthritis	-0.80 (-2.77 to 1.18)	0.43	923
Allergy	-0.15 (-1.90 to 1.60)	0.87	924
Cancer	1.17 (0.11 to 2.23)	0.031	923
Articular surgery non-prosthesis	0.96 (-0.68 to 2.59)	0.25	923
Articular prosthesis	-1.29 (-2.44 to -0.13)	0.029	923
Colon abdomen surgeries	0.92 (-1.02 to 2.87)	0.35	923
Gynecology surgeries	-0.28 (-1.66 to 1.09)	0.69	924
ORL surgeries	0.17 (-1.84 to 2.18)	0.87	924
Hematologic disease	1.69 (0.27 to 3.11)	0.02	923
Neurologic disease	-0.33 (-1.81 to 1.15)	0.66	92
Connective tissue disease	-0.28 (-2.04 to 1.47)	0.75	924
Other stomach-esophagus-bowel diseases	-0.05 (-1.39 to 1.30)	0.95	924
Anticoagulant	-1.25 (-2.40 to -0.10)	0.033	923
Other hip knee diseases	-1.02 (-2.61 to 0.58)	0.21	923
Other spine diseases	-0.30 (-2.38 to 1.78)	0.78	924
Shoulder elbow diseases	-1.34 (-3.05 to 0.37)	0.13	923
Other musculoskeletal diseases	0.05 (-1.70 to 1.79)	0.96	924
Other endocrine diseases	1.65 (0.16 to 3.15)	0.03	923

CI: Confidence interval; Coef: Coefficient; Ref: Reference category