

Supplementary Materials

Table S1. Gender difference in prevalence (%) and Risk Ratio of drug therapy (ATC IV)

ATC IV	Description	Prevalence Adjusted (%)			Adjusted RR (95% CI)
		Male	Female	Overall	Male/Female
C10AX	Other lipid modifying agents	2.43	1.56	2.01	1.563 (1.553 - 1.572)
N03AG	Fatty acid derivatives	0.74	0.61	0.68	1.222 (1.210 - 1.234)
R03BB	Anticholinergics	2.24	1.85	2.09	1.182 (1.180 - 1.187)
C09AA	ACE inhibitors, plain	7.16	6.15	6.77	1.165 (1.161 - 1.169)
A10BA	Biguanides	4.29	3.80	4.11	1.127 (1.122 - 1.132)
A10BB	Sulfonylureas	1.22	1.10	1.18	1.106 (1.097 - 1.115)
N03AA	Barbiturates and derivatives	0.19	0.18	0.19	1.030 (1.010 - 1.051)
N03AF	Carboxamide derivatives	0.40	0.40	0.40	1.023 (1.010 - 1.037)
R03AC	Selective beta-2-adrenoreceptor agonists	2.98	2.94	2.98	1.014 (1.009 - 1.019)
C07AG	Alpha and beta blocking agents	1.47	1.48	1.51	0.996 (0.988 - 1.003)
C08CA	Dihydropyridine derivatives	6.00	6.01	6.13	0.999 (0.996 - 1.003)
A10AB	Insulins and analogues for injection, fast-acting	1.43	1.44	1.46	0.994 (0.987 - 1.001)
A10BD	Combinations of oral blood glucose lowering drugs	0.68	0.69	0.70	0.992 (0.982 - 1.003)
A07EC	Aminosalicilic acid and similar agents	1.00	1.02	1.02	0.974 (0.966 - 0.982)
B01AC	Platelet aggregation inhibitors excl. heparin	9.01	9.46	9.47	0.953 (0.950 - 0.956)
N03AE	Benzodiazepine derivatives	0.18	0.19	0.19	0.921 (0.903 - 0.939)
R03AL	Adrenergics in combination with anticholinergics	2.61	2.76	2.71	0.945 (0.941 - 0.950)
C10AA	HMG CoA reductase inhibitors	12.08	12.91	12.74	0.936 (0.933 - 0.938)
C09CA	Angiotensin II receptor blockers (ARBs), plain	5.85	6.46	6.28	0.906 (0.902 - 0.909)
J01CR	Combinations of penicillins, incl. beta-lactamase inhibitors	20.86	23.44	22.38	0.890 (0.888 - 0.892)
J01DD	Third-generation cephalosporins	12.87	14.64	13.95	0.879 (0.877 - 0.881)
R03AK	Adrenergics in combination with corticosteroids	4.06	4.60	4.40	0.882 (0.878 - 0.885)
R03BA	Glucocorticoids	9.70	11.16	10.54	0.869 (0.867 - 0.871)
C03DA	Aldosterone antagonists	1.16	1.38	1.31	0.843 (0.836 - 0.849)
J01FA	Macrolides	11.78	14.03	13.05	0.839 (0.838 - 0.841)
J01MA	Fluoroquinolones	12.22	14.55	13.62	0.840 (0.838 - 0.842)
C07AB	Beta blocking agents, selective	8.91	10.90	10.12	0.817 (0.815 - 0.819)
A02BC	Proton pump inhibitors	22.06	27.15	25.10	0.812 (0.811 - 0.814)
H02AB	Glucocorticoids	13.59	16.82	15.41	0.808 (0.807 - 0.810)
C09BA	ACE inhibitors and diuretics	3.40	4.28	3.93	0.794 (0.791 - 0.798)
J01CA	Penicillins with extended spectrum	3.96	4.94	4.50	0.802 (0.799 - 0.805)
R06AE	Piperazine derivatives	3.95	5.05	4.56	0.782 (0.779 - 0.785)
R06AX	Other antihistamines for systemic use	4.00	5.27	4.69	0.759 (0.756 - 0.762)
A07AA	Antibiotics	4.94	6.62	5.89	0.745 (0.743 - 0.748)
C09DA	Angiotensin II receptor blockers and diuretics	5.16	7.23	6.34	0.714 (0.712 - 0.717)
A02BX	Other drugs for peptic ulcer and gastro-oesophageal reflux disease	4.34	5.99	5.25	0.724 (0.722 - 0.727)
M01AE	Propionic acid derivatives	9.83	13.75	12.00	0.715 (0.714 - 0.717)
M01AB	Acetic acid derivatives and related substances	7.51	10.55	9.20	0.712 (0.710 - 0.714)
N02BA	Salicylic acid and derivatives	0.05	0.07	0.06	0.697 (0.673 - 0.721)
M01AX	Other antiinflammatory and antirheumatic agents, non-steroids	3.97	5.69	4.92	0.697 (0.694 - 0.700)
C03CA	Sulfonamides, plain	3.34	4.91	4.28	0.680 (0.677 - 0.683)
N03AX	Other antiepileptics	1.88	2.83	2.41	0.663 (0.659 - 0.667)

N02AB	Phenylpiperidine derivatives	0.12	0.19	0.16	0.603 (0.590 - 0.617)
C07BB	Beta blocking agents, selective, and thiazides	1.04	1.72	1.41	0.608 (0.603 - 0.612)
N06AX	Other antidepressants	1.28	2.33	1.86	0.550 (0.546 - 0.553)
N02AA	Natural opium alkaloids	0.39	0.75	0.58	0.517 (0.511 - 0.522)
N06AB	Selective serotonin reuptake inhibitors	2.50	4.97	3.83	0.504 (0.501 - 0.506)
M01AH	Coxibs	2.13	4.21	3.25	0.507 (0.505 - 0.510)
N02AX	Other opioids	0.87	1.75	1.35	0.499 (0.495 - 0.502)
N06AA	Non-selective monoamine reuptake inhibitors	0.26	0.59	0.44	0.435 (0.430 - 0.441)
N02AE	Oripavine derivatives	0.03	0.07	0.05	0.421 (0.405 - 0.437)
H03BB	Sulfur-containing imidazole derivatives	0.22	0.51	0.38	0.426 (0.420 - 0.433)
B03BB	Folic acid and derivatives	1.66	3.80	2.81	0.437 (0.435 - 0.440)
N02CC	Selective serotonin (5HT1) agonists	0.25	0.72	0.50	0.349 (0.345 - 0.353)
B03AA	Iron bivalent, oral preparations	1.13	3.56	2.43	0.319 (0.317 - 0.320)
H03AA	Thyroid hormones	1.31	5.98	3.76	0.219 (0.218 - 0.220)
A11CC	Vitamin D and analogues	4.43	20.54	12.95	0.216 (0.215 - 0.216)

Abbreviations: CI, Confidence interval; RR, risk ratio.

Table S2. Gender difference in DDD/Treated and Costs/Treated of drug therapy (ATC IV)

ATC II	ATC IV	DDD/Treated			Sporadic/Users (%)			Costs/Treated (€)		
		Male	Female	Overall	Male	Female	Overall	Male	Female	Overall
J01	Antibacterials for systemic use									
	J01CA Penicillins with extended spectrum	17.0	17.5	17.3	79.8	78.6	79.1	5.3	5.3	5.3
	J01CR Combinations of penicillins, incl. beta-lactamase inhibitors	16.4	17.0	16.7	69.2	67.4	68.2	14.7	14.7	14.7
	J01FA Macrolides	12.2	12.1	12.2	75.2	73.8	74.4	12.7	12.7	12.7
	J01MA Fluoroquinolones	10.6	9.2	9.8	63.0	65.3	64.3	19.4	17.1	18.1
	J01DD Third-generation cephalosporins	6.8	6.9	6.8	64.1	64.6	64.4	35.7	34.1	34.8
A02	Drugs for acid related disorders									
	A02BC Proton pump inhibitors	109.3	110.1	109.7	25.9	25.4	25.6	64.5	63.4	63.9
	A02BX Other drugs for peptic ulcer and gastro-oesophageal reflux	34.9	32.9	33.7	56.3	55.6	55.9	20.3	19.2	19.7
M01	Antiinflammatory and antirheumatic products									
	M01AH Coxibs	36.0	40.8	39.3	73.0	65.5	67.9	14.2	16.0	15.4
	M01AE Propionic acid derivatives	28.2	30.2	29.4	66.4	61.7	63.6	6.8	7.5	7.2
	M01AX Other antiinflammatory and antirheumatic agents, non-steroids	28.1	30.2	29.4	65.5	61.6	63.2	4.7	5.3	5.1
	M01AB Acetic acid derivatives and related substances	26.8	30.4	28.9	70.1	65.0	67.1	8.0	9.0	8.6
C09	Agents acting on the renin-angiotensin system									
	C09AA ACE inhibitors, plain	457.8	414.5	437.4	13.4	16.0	14.6	45.9	44.1	45.0
	C09CA Angiotensin II receptor blockers (ARBs), plain	361.9	353.0	357.2	13.3	14.0	13.7	66.0	65.1	65.5
	C09DA Angiotensin II receptor blockers and diuretics	250.0	259.4	255.6	10.7	8.9	9.7	68.1	69.3	68.8
	C09BA ACE inhibitors and diuretics	224.6	228.7	226.9	13.4	12.0	12.6	70.3	71.8	71.1
R03	Drugs for obstructive airway diseases									
	R03BB Anticholinergics	137.2	114.5	126.6	30.9	38.5	34.4	228.9	188.1	209.8
	R03AK Adrenergics in combination	97.6	85.9	91.2	44.7	47.9	46.4	202.8	178.7	189.7
	R03AC Selective beta-2-adrenoreceptor agonists	60.7	52.2	56.4	69.0	72.6	70.8	32.7	24.3	28.4
	R03AL Adrenergics in combination	38.5	32.7	35.4	75.6	81.1	78.5	59.6	31.0	44.6
	R03BA Glucocorticoids	25.8	24.5	25.1	70.1	72.4	71.4	27.6	25.7	26.6
H02	Corticosteroids for systemic use									
	H02AB Glucocorticoids	29.0	30.8	30.0	68.5	65.4	66.7	7.8	8.6	8.2
C10	Lipid modifying agents									
	C10AA HMG CoA reductase inhibitors	266.3	213.2	238.4	11.0	11.6	11.3	71.3	64.9	67.9
	C10AX Other lipid modifying agents	126.2	121.8	124.5	15.8	20.3	17.6	168.1	149.3	160.6
C07	Beta blocking agents									
	C07BB Beta blocking agents, selective, and thiazides	224.3	234.7	230.9	15.1	12.6	13.6	45.7	47.3	46.7
	C07AB Beta blocking agents, selective	141.0	151.8	147.0	12.6	12.4	12.5	33.3	34.8	34.1
	C07AG Alpha and beta blocking agents	131.3	126.3	128.8	10.3	11.6	11.0	57.6	54.5	56.0
A11	Vitamins									
	A11CC Vitamin D and analogues	86.1	97.8	95.8	37.6	24.2	26.5	40.4	51.1	49.3
B01	Antithrombotic agents									
	B01AC Platelet aggregation inhibitors excl. heparin	210.1	202.6	206.2	17.4	17.9	17.7	19.6	18.1	18.8
R06	Antihistamines for systemic use									
	R06AX Other antihistamines for systemic use	62.0	63.5	62.9	64.4	64.0	64.2	15.1	15.3	15.2

	R06AE	Piperazine derivatives	46.9	48.1	47.6	69.5	69.3	69.4	10.3	10.1	10.2
A07	Antidiarrheals, intestinal antiinflammatory/antiinfective agents										
	A07EC	Aminosalicylic acid and similar agents	163.6	131.0	146.7	45.5	48.1	46.8	182.2	138.6	159.6
	A07AA	Antibiotics	15.7	16.3	16.1	64.8	61.0	62.6	31.1	32.0	31.6
A10	Drugs used in diabetes										
	A10BB	Sulfonylureas	287.5	293.5	290.4	13.1	13.3	13.2	41.4	41.2	41.3
	A10BD	Combinations of oral blood glucose lowering drugs	246.1	253.4	249.8	14.4	12.9	13.7	54.4	54.0	54.2
	A10AB	Insulins and analogues for injection, fast-acting	242.1	227.2	234.5	11.0	11.1	11.0	364.5	340.5	352.3
	A10BA	Biguanides	184.9	176.5	180.9	12.1	12.5	12.3	29.4	28.6	29.0
C08	Calcium channel blockers										
	C08CA	Dihydropyridine derivatives	303.4	273.5	288.2	14.8	17.6	16.2	61.2	59.6	60.4
N06	Psychoanaleptics										
	N06AB	Selective serotonin reuptake inhibitors	204.6	211.2	209.0	27.9	23.7	25.1	57.3	59.2	58.6
	N06AA	Non-selective monoamine reuptake inhibitors	85.2	74.8	77.9	39.4	39.2	39.2	35.2	31.3	32.5
	N06AX	Other antidepressants	98.4	109.8	105.9	28.8	25.5	26.6	109.9	111.4	110.8
C03	Diuretics										
	C03DA	Aldosterone antagonists	115.9	112.6	114.1	24.2	25.3	24.8	43.4	40.2	41.7
	C03CA	Sulfonamides, plain	161.3	133.0	144.2	37.1	39.4	38.5	12.7	11.5	11.9
B03	Antianemic preparations										
	B03BB	Folic acid and derivatives	50.3	61.0	58.0	45.9	53.5	51.4	18.0	15.4	16.1
	B03AA	Iron bivalent, oral preparations	48.9	42.6	44.0	58.8	63.9	62.8	16.8	14.6	15.1
H03	Thyroid therapy										
	H03BB	Sulfur-containing imidazole derivatives	138.2	137.0	137.3	36.4	37.1	36.9	15.0	14.8	14.9
	H03AA	Thyroid hormones	162.9	147.4	150.0	22.3	18.6	19.3	18.3	17.9	17.9
N02	Analgesics										
	N02AE	Oripavine derivatives	32.8	27.4	29.0	50.5	49.7	49.9	138.0	128.8	131.5
	N02CC	Selective serotonin (5HT1) agonists	33.5	37.6	36.6	48.7	40.8	42.7	118.2	106.5	109.4
	N02AX	Other opioids	15.2	16.3	15.9	66.1	60.7	62.4	55.5	67.5	63.6
	N02BA	Salicylic acid and derivatives	9.7	10.0	9.8	78.3	78.7	78.6	18.1	18.4	18.3
	N02AB	Phenylpiperidine derivatives	78.0	57.3	64.9	41.5	43.2	42.6	543.3	332.9	410.8
	N02AA	Natural opium alkaloids	18.2	15.5	16.4	59.4	57.0	57.8	111.8	108.0	109.3
N03	Antiepileptics										
	N03AG	Fatty acid derivatives	126.2	102.5	115.4	15.4	16.8	16.0	146.7	119.6	134.4
	N03AX	Other antiepileptics	97.8	82.8	88.6	32.0	31.7	31.8	195.6	160.7	174.2
	N03AA	Barbiturates and derivatives	273.3	256.3	264.8	12.2	12.9	12.6	25.4	23.4	24.4
	N03AE	Benzodiazepine derivatives	44.3	34.4	39.1	29.7	32.9	31.4	20.8	17.2	18.9
	N03AF	Carboxamide derivatives	201.2	171.7	186.4	13.9	18.0	16.0	113.2	97.0	105.0