

Supplementary data

Table A: Independent and dependent variables applied in simple and multiple regression.

Analysis applied	Independent variables	Dependent variables
Simple and multiple linear regression	<p>Age: (i) effect of each year older, (ii) 18-29 years-old vs others, and ≥ 65 years-old vs others.</p> <p>Sex (effect of being male)</p> <p>Ethnicity: (i)European vs others, and (ii)Maori vs others</p> <p>Employment: (i)unemployed vs others, (ii)employed vs others, (iii) retired vs others</p> <p>Education (highest level): (i)university vs others, (ii)school vs others</p> <p>Number of medicines used: (i)total number used, (ii)using ≥ 5 medicines vs others, (iii)using ≥ 10 medicines vs others.</p> <p>Frequency of medicine used: (i)three times daily vs others, (ii)four times daily vs others</p> <p>Requires assistance with medicines use</p> <p>Pays for prescription medicines</p>	<p>LMQ-3 scores</p> <p>Domain scores</p> <ul style="list-style-type: none"> • Relationship burden • Practicalities burden • Cost burden • Side effect burden • Lack of effect burden • Concern burden • Interference burden • Autonomy burden

Table B: Model for Table 4: Multiple linear regression - LMQ-3 score vs participants' sociodemographic and medicine-use characteristics

Source	SS	df	MS			
Model	25941.113	5	5188.22259	Number of obs =	472	
Residual	180889.326	466	388.174518	F(5, 466) =	13.37	
				Prob > F =	0.0000	
				R-squared =	0.1254	
				Adj R-squared =	0.1160	
Total	206830.439	471	439.130443	Root MSE =	19.702	

score	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
young	10.72798	3.125672	3.43	0.001	4.585823	16.87014
unemp	12.40465	3.430624	3.62	0.000	5.663236	19.14605
uni	-5.659085	1.863426	-3.04	0.003	-9.320844	-1.997327
five	6.139668	1.888714	3.25	0.001	2.428216	9.851119
mthreex	7.392335	2.172763	3.40	0.001	3.122709	11.66196
_cons	97.00557	1.734712	55.92	0.000	93.59674	100.4144

score	Coef.	Std. Err.	t	P> t	Beta
young	10.72798	3.125672	3.43	0.001	.1534557
unemp	12.40465	3.430624	3.62	0.000	.1572898
uni	-5.659085	1.863426	-3.04	0.003	-.1338419
five	6.139668	1.888714	3.25	0.001	.145613
mthreex	7.392335	2.172763	3.40	0.001	.1520398
_cons	97.00557	1.734712	55.92	0.000	.

KEY: Young=18-29 years-old; unemp=Unemployed; uni=University education; five=Uses ≥ 5 medicines; mthreex=Uses medicines ≥ 3 x daily

Table C: Model for Relationships burden in Table 5: Multiple linear regression - domain scores vs participants' sociodemographic and medicine-use characteristics

Source	SS	df	MS			
Model	53.9487638	1	53.9487638	Number of obs = 472		
Residual	5730.44954	470	12.1924458	F(1, 470) = 4.42		
Total	5784.39831	471	12.2811004	Prob > F = 0.0360		
				R-squared = 0.0093		
				Adj R-squared = 0.0072		
				Root MSE = 3.4918		

relb	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
unemp	1.2737	.6055108	2.10	0.036	.0838569	2.463544
_cons	11.05963	.1672254	66.14	0.000	10.73103	11.38823

relb	Coef.	Std. Err.	t	P> t	Beta
unemp	1.2737	.6055108	2.10	0.036	.0965743
_cons	11.05963	.1672254	66.14	0.000	.

KEY: relb= Relationships burden (Relationships/communication with health professionals about medicines); unemp=Unemployed

Table D: Model for Practicalities burden in Table 5: Multiple linear regression - domain scores vs participants' sociodemographic and medicine-use characteristics

Source	SS	df	MS	Number of obs = 472		
Model	1349.14878	5	269.829756	F(5, 466) =	15.98	
Residual	7866.60546	466	16.8811276	Prob > F =	0.0000	
Total	9215.75424	471	19.5663572	R-squared =	0.1464	
				Adj R-squared =	0.1372	
				Root MSE =	4.1087	

practb	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
young	3.038404	.6400845	4.75	0.000	1.780595	4.296213
euro	-1.400913	.6153221	-2.28	0.023	-2.610062	-.191763
unemp	1.785574	.7404777	2.41	0.016	.3304855	3.240663
mthreex	2.103495	.4460418	4.72	0.000	1.226993	2.979998
helpy	2.232366	.9155512	2.44	0.015	.4332456	4.031486
_cons	15.36176	.5960156	25.77	0.000	14.19055	16.53297

practb	Coef.	Std. Err.	t	P> t	Beta
young	3.038404	.6400845	4.75	0.000	.2058982
euro	-1.400913	.6153221	-2.28	0.023	-.0975699
unemp	1.785574	.7404777	2.41	0.016	.1072596
mthreex	2.103495	.4460418	4.72	0.000	.2049553
helpy	2.232366	.9155512	2.44	0.015	.1087717
_cons	15.36176	.5960156	25.77	0.000	.

KEY: practb= Practicalities burden; young=18-29 years-old; euro=European; unemp=Unemployed; mthreex=Uses medicines $\geq 3x$ daily; helpy=Requires assistance with medicine use

Table E: Model for Cost-related burden in Table 5: Multiple linear regression - domain scores vs participants' sociodemographic and medicine-use characteristics

Source	SS	df	MS	Number of obs = 472		
Model	839.66146	7	119.951637	F(7, 464) =	16.20	
Residual	3436.43812	464	7.40611663	Prob > F =	0.0000	
Total	4276.09958	471	9.07876768	R-squared =	0.1964	
				Adj R-squared =	0.1842	
				Root MSE =	2.7214	

costb	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
young	1.959442	.4328594	4.53	0.000	1.108834	2.81005
unemp	1.363539	.4918066	2.77	0.006	.3970945	2.329983
uni	-1.148214	.257638	-4.46	0.000	-1.654496	-.641932
five	.9965071	.2617658	3.81	0.000	.4821138	1.5109
mthreex	1.106603	.3004244	3.68	0.000	.5162419	1.696964
helpy	1.295647	.6091788	2.13	0.034	.0985564	2.492738
pay	1.53537	.4384991	3.50	0.001	.6736799	2.39706
_cons	4.828366	.4705065	10.26	0.000	3.903779	5.752954

costb	Coef.	Std. Err.	t	P> t	Beta
young	1.959442	.4328594	4.53	0.000	.194931
unemp	1.363539	.4918066	2.77	0.006	.120245
uni	-1.148214	.257638	-4.46	0.000	-.1888652
five	.9965071	.2617658	3.81	0.000	.1643687
mthreex	1.106603	.3004244	3.68	0.000	.1582891
helpy	1.295647	.6091788	2.13	0.034	.0926785
pay	1.53537	.4384991	3.50	0.001	.1467848
_cons	4.828366	.4705065	10.26	0.000	.

KEY: costb=Cost-related burden; young=18-29 years-old; unemp=Unemployed; uni=University educated; five=Uses ≥5 medicines; mthreex=Uses medicines ≥3x daily; helpy=Requires assistance with medicine use; pay=Pays for prescription medicines

Table F part 1: Model for Side effect burden in Table 5: Multiple linear regression - domain scores vs participants' sociodemographic and medicine-use characteristics

Source	SS	df	MS			
Model	616.93739	3	205.645797	Number of obs =	472	
Residual	6851.28083	468	14.639489	F(3, 468) =	14.05	
Total	7468.21822	471	15.8560896	Prob > F =	0.0000	
				R-squared =	0.0826	
				Adj R-squared =	0.0767	
				Root MSE =	3.8262	

sideb	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
unemp	2.133193	.6646793	3.21	0.001	.827068	3.439319
five	1.347118	.3593723	3.75	0.000	.640935	2.053301
mthreex	1.413719	.4151129	3.41	0.001	.5980029	2.229435
_cons	9.174946	.2782985	32.97	0.000	8.628077	9.721815

sideb	Coef.	Std. Err.	t	P> t	Beta
unemp	2.133193	.6646793	3.21	0.001	.142346
five	1.347118	.3593723	3.75	0.000	.1681357
mthreex	1.413719	.4151129	3.41	0.001	.1530162
_cons	9.174946	.2782985	32.97	0.000	.

KEY: sideb=Side Effect burden; unemp=Unemployed; five=Uses ≥5 medicines; mthreex=Uses medicines ≥3x daily

Table F part 2: Model for Lack of effectiveness burden in Table 5: Multiple linear regression - domain scores vs participants' sociodemographic and medicine-use characteristics

Source	SS	df	MS			
Model	56.3905857	1	56.3905857	Number of obs =	472	
Residual	7058.69416	470	15.0184982	F(1, 470) =	3.75	
Total	7115.08475	471	15.106337	Prob > F =	0.0533	
				R-squared =	0.0079	
				Adj R-squared =	0.0058	
				Root MSE =	3.8754	

effectb	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
uni	-.6981523	.3602965	-1.94	0.053	-1.406144	.0098392
_cons	13.57993	.2362855	57.47	0.000	13.11562	14.04423

effectb	Coef.	Std. Err.	t	P> t	Beta
uni	-.6981523	.3602965	-1.94	0.053	-.0890253
_cons	13.57993	.2362855	57.47	0.000	.

Key effectb=Lack of effectiveness burden; uni=University educated

Table F part 3: Model for Concerns burden in Table 5: Multiple linear regression - domain scores vs participants' sociodemographic and medicine-use characteristics

Source	SS	df	MS	Number of obs = 472		
Model	1016.68826	5	203.337651	F(5, 466) =	8.27	
Residual	11460.2927	466	24.5929027	Prob > F =	0.0000	
Total	12476.9809	471	26.4904054	R-squared =	0.0815	
				Adj R-squared =	0.0716	
				Root MSE =	4.9591	

attb	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
young	2.608786	.7745365	3.37	0.001	1.08677	4.130803
euro	-1.954674	.7426452	-2.63	0.009	-3.414022	-.4953259
unemp	2.072179	.8622419	2.40	0.017	.3778154	3.766543
uni	-1.285021	.4695078	-2.74	0.006	-2.207635	-.3624059
five	1.565304	.4672104	3.35	0.001	.6472037	2.483404
_cons	21.25059	.7985218	26.61	0.000	19.68144	22.81974

attb	Coef.	Std. Err.	t	P> t	Beta
young	2.608786	.7745365	3.37	0.001	.1519344
euro	-1.954674	.7426452	-2.63	0.009	-.1170011
unemp	2.072179	.8622419	2.40	0.017	.1069784
uni	-1.285021	.4695078	-2.74	0.006	-.1237395
five	1.565304	.4672104	3.35	0.001	.1511494
_cons	21.25059	.7985218	26.61	0.000	.

KEY: attb=Concerns burden (Attitudes and concerns about medicines); young=18-29 years-old; euro=European; unemp=Unemployed; uni=University educated; five=Uses ≥5 medicines

Table G: Model for Interference burden in Table 5: Multiple linear regression - domain scores vs participants' sociodemographic and medicine-use characteristics

Source	SS	df	MS	Number of obs = 472		
Model	2459.57456	6	409.929093	F(6, 465) =	21.43	
Residual	8893.11824	465	19.1249855	Prob > F =	0.0000	
Total	11352.6928	471	24.1033817	R-squared =	0.2167	
				Adj R-squared =	0.2065	
				Root MSE =	4.3732	

dayb	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
young	3.794837	.6976384	5.44	0.000	2.423923	5.165751
sex	1.415542	.4244906	3.33	0.001	.5813851	2.2497
unemp	2.62062	.7625354	3.44	0.001	1.122178	4.119062
uni	-1.366038	.4136225	-3.30	0.001	-2.178839	-.5532374
five	1.836273	.4209787	4.36	0.000	1.009017	2.66353
mthreex	2.839523	.4856145	5.85	0.000	1.885253	3.793794
_cons	11.6841	.4337326	26.94	0.000	10.83178	12.53642

dayb	Coef.	Std. Err.	t	P> t	Beta
young	3.794837	.6976384	5.44	0.000	.2316947
sex	1.415542	.4244906	3.33	0.001	.1397334
unemp	2.62062	.7625354	3.44	0.001	.1418333
uni	-1.366038	.4136225	-3.30	0.001	-.1379007
five	1.836273	.4209787	4.36	0.000	.1858876
mthreex	2.839523	.4856145	5.85	0.000	.2492752
_cons	11.6841	.4337326	26.94	0.000	.

KEY: dayb=Interference burden (Impact and interference on day-to-day life); young=18-29 years-old; sex=male; unemp=Unemployed; uni=University educated; five=Uses ≥5 medicines; mthreex=Uses medicines ≥3x daily

Table H: Model for Autonomy burden in Table 5: Multiple linear regression - domain scores vs participants' sociodemographic and medicine-use characteristics

Source	SS	df	MS			
Model	323.495562	2	161.747781	Number of obs = 472		
Residual	3172.95995	469	6.76537302	F(2, 469) = 23.91		
Total	3496.45551	471	7.42347242	Prob > F = 0.0000		
				R-squared = 0.0925		
				Adj R-squared = 0.0887		
				Root MSE = 2.601		

autonb	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
ret	1.293255	.2399	5.39	0.000	.8218429	1.764667
mthreex	-1.115342	.2785646	-4.00	0.000	-1.662731	-.5679527
_cons	10.33124	.1840678	56.13	0.000	9.969539	10.69294

autonb	Coef.	Std. Err.	t	P> t	Beta
ret	1.293255	.2399	5.39	0.000	.2375465
mthreex	-1.115342	.2785646	-4.00	0.000	-.1764318
_cons	10.33124	.1840678	56.13	0.000	.

KEY: dayb=Autonomy burden (Control and Autonomy to vary routine); ret=retired; mthreex=Uses medicines ≥3x daily