

The electronic supplementary material

Table S1 The consumption of metoclopramide for patients with diabetes aged over 45 according to calendar year

Year	total (A)	No. of overuse (B)	No. of use (C)	Overuse rate (%) (B/C)	Utilization rate (%) (C/A)	the cumulative dose for the longest continuous duration				
						mean	SD	Q1	Median	Q3
1999	18,357	282	2,830	10.0	15.4	74.5	145.0	9.0	21.0	63.0
2000	23,099	451	3,653	12.3	15.8	98.9	208.9	12.0	25.0	84.0
2001	27,869	638	4,442	14.4	15.9	109.4	230.9	12.0	28.0	96.0
2002	32,722	818	5,140	15.9	15.7	125.4	272.2	14.0	32.0	105.0
2003	37,609	926	5,686	16.3	15.1	132.9	298.8	15.0	36.0	112.0
2004	43,157	1,194	6,981	17.1	16.2	131.1	281.6	18.0	36.0	126.0
2005	48,644	1,399	7,762	18.0	16.0	136.9	313.7	18.0	37.0	126.0
2006	52,355	1,432	8,110	17.7	15.5	134.1	320.8	17.0	36.0	119.0
2007	56,360	1,357	8,223	16.5	14.6	130.0	330.1	15.0	33.0	112.0
2008	59,373	1,247	8,039	15.5	13.5	122.9	348.1	14.0	30.0	102.0

Table S2 The consumption of metoclopramide for patients with hypertension aged over 45 according to calendar year

Year	total (A)	No. of overuse (B)	No. of use (C)	Overuse rate (%) (B/C)	Utilization rate (%) (C/A)	the cumulative dose for the longest continuous duration				
						mean	SD	Q1	Median	Q3
1999	27,568	317	3,656	8.7	13.3	73.2	143.5	9.0	21.0	63.5
2000	44,326	670	6,972	9.6	15.7	81.0	171.7	12.0	24.0	72.0
2001	55,234	1,026	8,931	11.5	16.2	92.2	190.2	12.0	27.0	84.0
2002	65,596	1,358	10,472	13.0	16.0	104.1	227.2	14.0	28.0	90.0
2003	76,269	1,604	11,428	14.0	15.0	115.1	260.1	15.0	32.0	102.0
2004	87,945	2,086	14,312	14.6	16.3	116.3	266.2	15.0	32.0	105.0
2005	99,038	2,450	15,524	15.8	15.7	123.2	293.4	18.0	35.0	111.0
2006	106,417	2,554	16,543	15.4	15.5	120.4	303.5	15.0	33.0	105.0
2007	113,857	2,521	16,476	15.3	14.5	117.4	303.7	15.0	30.0	99.0
2008	119,417	2,299	15,903	14.5	13.3	111.6	297.5	14.0	28.0	93.0

Table S3 Definition of disease and medication

	ICD-9-CM/ATC code	Note
Disease		
parkinsonism	332.0 or 332.1	neurology outpatient ≥ 3
diabetes	250.x or A181	outpatient ≥ 3 within one year or discharge
hypertension	401	outpatient ≥ 3 within one year or discharge
hyperlipidemia	272	outpatient ≥ 3 within one year or discharge
stroke	430-434	outpatient ≥ 3 within one year or discharge
episodic mood disorders	296	outpatient ≥ 3 within one year or discharge
schizophrenic disorders	295	outpatient ≥ 3 within one year or discharge
Medication		
metoclopramide	A03FA01	All prescriptions between cohort entry and index date.
Blood glucose lowering drugs	A10B	At least 60 dispensing day after cohort entry.
insulin	A10A	Any prescriptions within one year after cohort entry.
statin	C10AA	Any prescriptions within one year prior to cohort entry.
antipsychotic drugs	N05A	Any prescriptions within one year prior to cohort entry.