

Supplementary Table 2. Annual consumption of antimicrobial agents for systemic use at general wards (unit: DDD/1,000 patient-days)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Total	Coefficient for time	p value
Broad-spectrum antibiotics													
3rd CEPs	159.43	189.06	182.35	172.33	163.33	169.68	165.28	152.68	157.73	155.50	167.40	-0.216	< 0.001
4th CEPs	6.98	5.98	1.67	7.14	12.73	10.95	20.33	20.04	19.54	26.79	12.65	0.204	< 0.001
BL/BLIs	67.60	63.66	66.23	59.20	67.49	71.95	61.90	79.30	81.43	93.39	70.56	0.214	< 0.001
FQs	126.29	119.88	136.46	118.20	114.66	114.73	105.27	121.24	118.71	123.48	120.01	-0.081	0.033
Subtotal	360.31	378.58	386.71	356.88	358.22	367.31	352.79	373.27	377.42	399.16	370.61	0.121	0.087
Antibiotics against MDR pathogens													
Carbapenems	0.27	4.28	11.30	8.19	5.48	6.29	9.31	7.64	8.61	11.72	7.17	0.063	< 0.001
Glycopeptides	14.29	13.60	16.56	13.47	14.24	13.17	18.98	15.70	18.11	20.01	15.67	0.051	< 0.001
Oxazolidinone	0.00	0.26	0.42	0.74	0.54	0.83	1.24	1.06	1.78	1.43	0.79	0.015	< 0.001
Polymyxin	0.00	0.02	0	1.50	2.46	0.90	1.55	1.57	1.97	0.95	1.06	0.015	< 0.001
Tigecycline	0	0	0	0	0	0.59	0.82	0.07	0.88	1.75	0.38	0.013	< 0.001
Subtotal	14.56	18.16	28.27	23.90	22.73	21.78	31.90	26.04	31.35	35.86	25.08	0.156	< 0.001
Nonbroad-spectrum antibiotics													
1st CEPs	158.75	135.87	152.60	188.96	154.32	143.39	138.82	136.49	132.43	114.06	146.62	-0.350	< 0.001
2nd CEPs	159.67	173.20	148.53	124.55	104.56	95.75	92.70	87.46	91.97	94.83	119.22	-0.783	< 0.001
AGs	158.74	141.79	141.64	130.13	78.05	50.68	35.29	31.77	30.42	23.66	85.92	-1.443	< 0.001
Lincosamides	7.52	11.97	14.45	13.89	12.69	14.38	17.57	14.32	13.65	12.23	13.21	0.031	0.006
Macrolides	36.12	48.42	51.84	50.66	49.26	50.36	30.53	53.26	46.82	40.18	45.83	-0.016	0.690
Metronidazole	40.70	46.57	50.56	48.42	47.63	40.98	39.22	38.60	39.10	34.41	42.95	-0.101	< 0.001
Monobactam	2.20	1.49	0.80	0.83	0.84	0.36	0	0	0	0	0.70	-0.019	< 0.001
Penicillins	21.79	21.41	15.19	16.85	11.50	7.76	15.36	19.64	22.91	21.02	17.23	0.011	0.575
Tetracyclines	6.53	9.90	6.52	4.85	3.88	0.03	0.40	0.75	5.34	6.76	4.58	-0.036	0.002
SXT	15.67	16.06	21.65	25.90	30.57	23.07	39.58	33.93	31.70	19.09	25.44	0.124	< 0.001
Subtotal	607.68	606.70	603.77	605.03	493.29	426.77	409.47	416.22	414.34	366.23	501.70	-2.580	< 0.001
Total	982.55	1,003.44	1,018.75	985.80	874.23	815.86	794.15	815.52	823.11	801.25	897.39	-2.304	< 0.001

Coefficient for time and p value were extracted from a linear regression model using measures on a monthly basis.

DDD, defined daily dose; CEP, cephalosporin; BL, β-lactam; BLI, β-lactamase inhibitor; FQ, fluoroquinolone; MDR, multidrug-resistant; AG, aminoglycoside; SXT, trimethoprim/sulfamethoxazole.