

Supplementary Table 4. Annual consumption of antimicrobial agents for systemic use at medical departments (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	97.86	107.04	108.61	111.46	104.86	104.81	105.05	105.61	116.52	111.11	107.12	0.076	0.038
4th CEPs	7.79	8.70	2.85	11.74	21.20	16.64	33.46	35.61	30.50	45.93	20.61	0.363	< 0.001
BL/BLIs	30.09	33.28	38.16	32.33	28.94	34.93	30.66	52.56	72.51	91.53	43.14	0.452	< 0.001
FQs	122.37	139.15	173.62	153.15	151.56	146.65	139.39	161.32	162.14	164.57	150.84	0.206	0.001
Subtotal	258.11	288.17	323.24	308.68	306.56	303.04	308.56	355.10	381.67	413.14	321.71	1.096	< 0.001
Antibiotics against MDR pathogens													
Carbapenems	0.33	7.46	24.31	18.00	9.42	11.86	17.18	14.17	15.94	18.32	13.51	0.089	< 0.001
Glycopeptides	12.91	13.14	15.87	14.58	12.46	9.99	16.38	15.44	17.30	14.95	14.21	0.026	0.025
Oxazolidinone	0.13	0.33	1.22	1.48	1.18	1.16	1.26	2.16	2.24	1.09	1.20	0.014	< 0.001
Polymyxin	0.01	0	0.29	2.07	4.01	2.65	2.91	7.01	6.80	4.70	2.90	0.063	< 0.001
Tigecycline	0	0	0	0	0	1.16	2.79	0.31	1.49	2.93	0.82	0.024	< 0.001
Subtotal	13.39	20.93	41.70	36.13	27.07	26.84	40.52	39.08	43.76	41.99	32.64	0.216	< 0.001
Nonbroad-spectrum antibiotics													
1st CEPs	60.70	66.28	58.85	55.31	52.06	47.29	48.28	31.68	36.94	37.08	50.16	-0.290	< 0.001
2nd CEPs	54.80	51.27	45.71	39.93	39.08	38.12	30.91	29.72	30.44	28.56	39.35	-0.246	< 0.001
AGs	77.25	70.19	83.04	85.27	44.56	21.90	14.81	16.49	16.13	14.21	45.93	-0.766	< 0.001
Lincosamides	14.75	23.77	29.01	26.70	24.65	26.89	32.81	26.40	26.17	19.25	25.05	0.027	0.209
Macrolides	56.62	74.10	82.31	84.30	72.63	76.84	43.17	70.80	75.15	62.78	70.04	-0.060	0.352
Metronidazole	35.27	37.18	42.53	42.52	42.46	41.83	40.85	40.27	41.12	40.25	40.42	0.027	0.205
Monobactam	1.37	1.13	1.39	0.80	0.33	0.76	0	0	0	0	0.61	-0.014	< 0.001
Penicillins	20.28	25.08	14.74	20.18	10.75	8.18	18.54	24.39	24.71	23.48	18.78	0.039	0.088
Tetracyclines	10.68	11.09	10.12	6.56	6.09	0.05	0.39	0.90	7.18	7.84	6.16	-0.055	0.001
SXT	17.45	24.33	33.44	33.98	30.33	31.32	58.20	47.19	42.97	20.49	33.71	0.158	< 0.001
Subtotal	349.17	384.43	401.14	395.54	322.95	293.18	287.96	287.84	300.81	253.93	330.21	-1.180	< 0.001
Total	620.67	693.53	766.07	740.34	656.58	623.05	637.04	682.03	726.24	709.06	684.56	0.132	0.490

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.