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Abstract (publication only)

Systemic antimicrobial consumption and expenditure in Russian multi-profile hospitals: results of a multicentre trial

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Objectives: To assess systemic antimicrobials (AM) consumption and expenditures in multi-profile hospitals in different regions of Russian Federation. Methods: On-line database (OPTIMA Project) based on ATC-DDD methodology was developed to monitor systemic AM consumption and expenditures in multi-profile hospitals of 8 Russian cities: Smolensk (#1), Moscow (#3 and #7), Yaroslavl (#4), Chelyabinsk (#5), Perm (#6), Ufa (#8), Bryansk (#9) and Yakutsk (#11) for 2 one year periods: IV quarter of 2008 - III quarter of 2009 or I-IV quarters of 2009 (centers ## 3-9, 11) and/or I-IV quarters of 2010 (centers ## 1, 4-6, 9). Aggregate data on AM consumption were expressed in numbers of DDD/100 bed-days (DBD). Results: AM consumption and expenditure rates, as well as its shares are listed in the table. Conclusions: 1. AM consumption and expenditures vary significantly in different regions of Russian Federation. 2. The highest AM consumption was accounted for cephalosporins, penicillins and quinolones; the highest AM expenditures - for cephalosporins, carbapenems and penicillins.

Site	Total consumption, DBD	Total expenditures, €	consumption / expenditures shares, %						
			penicillins	cephalosporins III	carbapenems	quinolones	aminoglycosides	glycopeptides	nitroimidazoles
2009									
#3	25.8	75760	35.8/14.4	17.9/19.3	0.6/30.5	9.3/9.3	1.6/0.4	0.1/1.9	3.4/3.4
#4	34	201549	22 /14.5	29.7/12.8	1.3/29.9	7.3/13.7	9.3/3.4	0.6/3.8	2.6/2.3
#5	65.1	312325	40.9/23.8	23.6/38.7	0.1/4.9	7.7/10.7	6.6/3.5	-	6.3/4
#6	23.8	161108	12.7/13.4	36.5/30.6	0.9/21.2	12.2/7.5	4.9/1	0.4/4	9.9/3.9
#7	40.2	151875	5.7/1.8	35.7/20.4	1/23.7	27.9/34.6	1/0.4	0.9/5.3	10.2/5.2
#8	31.5	430974	16.5/9.4	29/20.8	1.7/38	7.3/8.7	12.5/2.8	0.3/1.7	8.9/3.2
#9	45.5	162776	45.5/21	9.7/39.8	0.1/11.3	10.9/5.6	7.4/2.8	0/0.2	5/3.5
#11	85.7	396240	10.1/14.5	62/26.6	0.7/23.8	13.3/5.9	2/0.9	0.7/12.7	5/3.6
2010									
#1	22.3	75040	32.2/15	4.5./23.6	0/1.4	29.5/14.3	5.4/1.6	0/0.6	4.3/5.1
#4	35.5	165757	17.5/16.6	43.3/32.2	0.4/8.2	3/3.5	14.1/19.2	0.5/4.4	3.4/1.8
#5	47	439874	18.8/8.8	29.6/23.7	0.7/29.4	13.6/13.2	7.3/3.1	0/0.4	7.1/2.8
#6	27.7	216147	10.2/9.9	38.5/14.1	1.5/39.7	11.4/7.1	4.4/0.8	0.6/4.6	10.3/2.5
#9	44.1	149354	38.5/17.9	11.9/34.2	0.1/12.9	19.4/8.8	6.3/3.5	0.3/0.4	5.7/6.3