

5. Total institutional antibiotic consumption in value index varied from 1562575 leis in 2009 to 1500888 leis in 2014 that represents 17% and 14% from whole amount of drugs [18, 19]. The same data for septic surgery department were 116707 leis in 2009 and 69457 leis in 2014 or 23.50% and 19.85% from whole amount of drugs, and 7.47% and 4.63% from the total institutional antibiotics consumption respectively.
6. The cost of DDD/1000 registered 8314 leis at the beginning and 5559 leis at the end of the evaluated period or a decline with 33.1%, and vice versa the cost of 1 (one medium DDD) increased from 12.33 leis in 2009 to 16.44 leis in 2014 or with 33.3%.
7. The ratio between parenteral and enteral forms cost of 1 (one) medium DDD antibacterials for systemic use were 2.87:1; 3.72:1; 7.15:1; 7.84:1; 6.08:1 and 10.73:1 for the evaluated years. For other beta-lactam antibacterials this ratio was 12.06:1; 12.97:1; 23.75:1; 44.86:1; 12.21:1; and 11.62:1 respectively.

REFERENCES:

1. The world medicines situation -2011. Centre for Drug Statistics in Oslo, Norway - www.who.int/.../WMS_ch14_wRational.pdf: <http://www.whocc.no> pag 1.
2. Surveillance of antimicrobial consumption in Europe 2010. <http://ecdc.europa.eu/en/publications/Publications/antimicrobial-antibiotic-consumption-ESAC-report-2010-data.pdf>. 2010; 3-59.
3. Camins BC, King MD, Wells JB, et al. Impact of an antimicrobial utilization program on antimicrobial use at a large teaching hospital: a randomized controlled trial. *Infection control and hospital epidemiology: the official journal of the Society of Hospital Epidemiologists of America*. Oct 2009; 30(10):931-938.
4. Levin PD, Idrees S, Sprung CL, et al. Antimicrobial use in the ICU: indications and accuracy an observational trial. *Journal of hospital medicine: an official publication of the Society of Hospital Medicine*. Nov-Dec 2012;7(9):672-678.
5. Fridkin SK, Baggs J, Fagan R, et al. Vital Signs: Improving Antibiotic Use Among Hospitalized Patients. *MMWR. Morbidity and mortality weekly report*. 2014; 63.
6. Davey P, Brown E, Fenelon L, Gould IM, et al. Interventions to improve antibiotic prescribing practices for hospital inpatients. *The Cochrane database of systematic reviews*. 2013; 4: CD003543.
7. Malani AN, Richards PG, Kapila S, et al. Clinical and economic outcomes from a community hospital's antimicrobial stewardship program. *American journal of infection control*. Feb 2013; 41(2): 145-148.
8. Yatin Mehta, Abhinav Gupta,¹Subhash Todi² et al. Guidelines for prevention of hospital acquired infections. *Indian J Crit Care Med*. 2014 Mar; 18(3): 149-163.
9. Guidelines for ATC classification and DDD assignment WHO, 16th edition. WHO Collaborating Centre for Drug Statistics Methodology Norwegian Institute of Public Health. Oslo, 2013;284.
10. How to Calculate Antimicrobial Defined Daily Doses (DDDs) and DDDs per 1000 Patient Days. www.antimicrobialstewardship.com/.../how_to_calculate_ddds_final.pdf.
11. Medical and public health institution Emergency Medicine Institute. <http://urgenta.md/Index.aspx>.
12. Bernaz E. Evaluation of the antimicrobial used in defined daily doses in hospitals of the Republic of Moldova]. *Buletinul Academiei de Științe a Moldovei (Științe Medicale)* [Bulletin of the Moldavian Sciences Academy (Medical Sciences)]. 2014; 3 (44): 189-200.
13. E. P. Bernaz. Evaluation of consumption in defined daily doses of antimicrobial for systemic use in hospitals. *Curierul medical medical* [Scientific medical journal of Ministry of Health of the Republic of Moldova and Nicolae Testemitanu State University of Medicine and Pharmacy], 2015; 5: 6-10.
14. Dumartin C., A.-M. Rogues, F. L'Heriteau, et al. (Bordeaux, Paris, Besançon, Rennes, Nancy, Lyon, Tourcoing, Saint-Maurice, FR). Trends in antibiotic use and antimicrobial resistance in French hospitals, 2008-2010. Data from the nationwide network "ATB-RAISIN". 22nd European Congress of Clinical Microbiology and Infectious Diseases (ECCMID). London, Sunday, April 01, 2012, 12:30 - 13:30.
15. Amadeo B. et al. Easily available adjustment criteria for the comparison of antibiotic consumption in a hospital setting: experience in France. *Clinical microbiology and infection : Clinical Microbiology and Infect*. 2010; 16(6):735-41.
16. Filius, PM, Liem, TB, Van Der Linden, PD et al. An additional measure for quantifying antibiotic use in hospitals. *J Antimicrob Chemother*. 2005; 55: 805-808.
17. Muller-Pebody, B, Muscat, M, Pelle, et al. Increase and change in pattern of hospital antimicrobial use, Denmark, 1997-2001. *J Antimicrob Chemother*. 2004; 54: 1122-1126.
18. Loeffler, JM, Garbino, J, Lew, D, et al. Antibiotic consumption, bacterial resistance and their correlation in a Swiss university hospital and its adult intensive care units. *Scand J Infect Dis*. 2003; 35: 843-850.
19. E. Savov^{1*}, I. Gergova¹, M. Borisova¹, et al. Consumption of antimicrobial drugs and antibiotic resistance in problematic for hospital infectious pathology bacteria. *Trakia Journal of Sciences*, Vol. 11, № 4, 2013; 338-342.
20. Hermosilla Najera, L, Canut Blasco, A, Ulibarrena Sanz, et al. Trends in antimicrobial utilization at a Spanish general hospital during a 5-year period. *Pharmacoepidemiol Drug Safety*. 2003; 12: 243-247.
21. De With K, Bergner J, Buhner J et al. Antibiotic use in German university hospitals 1998-2000 (project INTERUNI-II). *Int J Antimicrob Agents*. 2004; 24: 15-20.
22. Kern WV, de With K, Steib-Bauert M, et al. Antibiotic use in non-university regional acute care general hospitals in southwestern Germany, 2001-2002. *Infection*. 2005 Oct; 33(5-6):333-9.
23. Catherine Dumartin, Xavier Bertrand, Pascal Jarno, et al. Antibiotic use in 530 French hospitals: results from surveillance network at hospital and ward levels in 2007. *J Antimicrob Chemother* 2010; 65: 2028 - 2036.
24. E. P. Bernaz. The consumption and the stocks dynamics of systemic antibiotics for systemic use in hospitals. *Curierul medical*, 2013;4:49-55.
25. Bernaz E., Ciobanu Gh., Mișin I., Borovic E., Rusu V. Raționalizarea consumului de remedii medicamentoase antimicrobiene sistemice în instituțiile medicale spitalicești [Rationalisation of consumption with systemic antimicrobial in hospitals]. *Buletinul Academiei de Științe a Moldovei (Științe Medicale)*. 2012; 3 (35): 212-221