





Regional contributions and synergies for **Global Health** Security





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Hospital prophylactic antimicrobial prescribing: Data from the Global Point Prevalence Survey of Antimicrobial Consumption and Resistance (Global -PPS 2015) in Skopje

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Background

Antimicrobials are widely used in hospitals for both treatment of infections and prophylactic purposes. Point prevalence surveyes are a good tool for gathering information regarding antimicrobial use in hospitals and setting targets for improved prescribing. The aim of this study was to analyze hospital prophylactic antimicrobial prescribing and to identify targets for improvements.

Method

The standardized and validated protocol of Global PPS for antimicrobial consumption and resistance was used for collecting data from 12 clinics with total 1005 beds in Skopje. The study was conducted from March to August 2015. Data of patients receiving antimicrobials for prophylactic purposes on the day of survey were analyzed.

Results

Out of 527 antimicrobials administered on the day of survey, 49.7% (n=262) were applied for prophylactic purposes; 26% (n=68) for medical prophylaxis–MP and 74% (n=194) for surgical prophylaxis–SP. Third–generation of cephalosporins (59.5%, n=156) were the most frequently prescribed antimicrobials for both MP (23.5%, n=16) and SP (72.2%, n=140). Three most used antimicrobials for MP were ciprofloxacin (19.1%), sulfomethoxazole and trimethoprim (17.6%) and amikacin (13.2%). The three most used antimicrobials for SP were ceftriaxone (66.5%), clindamycin (7.7%) and metronidazole (6.7%). The guideline for surgical prophylaxis were mostly missing; only 20.5% of drugs prescribed for medical prophylaxis were based on guidelines. 95.4% (n=185) of antibiotics prescribed for SP were administered for >1 day. The rate of reporting stop/review date for both MP and SP was 100%.

Conclusions

The absence of guidelines, prolonged surgical prophylaxis and high use of third- generation cephalosporins for surgical prevention, which can lead to propagation of highly resistance bacteria, were identified targets for intervention.

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Antimicrobial Resistance of Klebsiella pneumoniae isolates from surgical hospitals in Kharkiv region, Eastern Ukraine, 2013 – 2016

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Background

Klebsiella pneumoniae (KP) is the important cause of healthcare-associated infections. The growth of antibiotic resistance is a severe public health problem. The objective of the study was to research the frequency of isolation of KP strains from surgical hospitals in Kharkiv region, to evaluate antibiotics resistance rate in KP isolates and to assess the changes in the resistance rate in 2013-2016.

Method

We examined the results of antibiotic resistance tests of 29 bacteriologic laboratories. The samples were collected from 30 surgical healthcare settings in the Kharkiv region for 2013-2016. 5069 (49,1%) strains of KP were isolated according to CLSI guidelines and tested with disk diffusion method.

Results

In the Kharkiv region the frequency of KP isolation in surgical hospitals increased from 3.3% (CI: 2.9; 3.8) in 2013 to 6.7% (CI: 6.0; 7.5) in 2016. KP strains were more often isolated from urine than from wounds and blood. Proportion of KP strains among all isolates were 11,0% in 2013, 10,3% in 2014, 6,2% in 2015, 15,8% in 2016. We found an increase of the percentages of KP resistance to multiple antibiotics from 46,3% in 2013 to 71,7% in 2016. Percentages of resistant isolates to fluoroquinolones raised from 5,6% in 2013 to 12,5% in 2016. 71,6% and 46,7% of KP strains were sensitive to Ceftriaxone (third-generation cephalosporins) in 2013 and 2016 respectively. Percentages of resistant strains to carbapenems ranged from 76,9% (imipenem) and 31,9% (meropenem) in 2013 to 22,7% (imipenem) and 20,0% (meropenem) in 2016.

Conclusions

In surgical hospitals of Kharkiv region antibiotic resistance of KP isolates increased in 2013 – 2016. For patient safety it is necessary to implement of effective infection control measures and antibiotic stewardship in hospitals.

KEYWORDS: Klebsiella pneumoniae, antibiotic resistance, fluoroquinolones, carbapenems, resistant strain, Ceftriaxone

KEYWORDS: Point prevalence survey, antimicrobial consumption, prophylaxis, Macedonia







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