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Analysis of the etiological structure and antibiotic resistance of infectious agents isolated from hospital patients

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Background:

The inappropriate use of antibiotics may lead to emergence of antibiotic-resistant bacterial strains and is a serious global health problem. The aim of our study was to examine the etiological structure of several bacterial infections and their resistance to antibiotics.

Conclusion:

Methods:

We analyzed samples from 51 hospital inpatients at bonafide considering that amoxicillin/tamoxifen acid is often a drug of Hospital with isolated **bacterial pathogens**, using an **automated** to treat the upper respiratory tract infections, resistance to **microbiological analyzer Vitek2** and mass spectrometry. *Mycobacterium pneumoniae* and *Staphylococcus aureus* to amoxicillin/PLFURELRORJLFDO LGHQWLFDWLRQ. *Chlamydia pneumoniae* and *Staphylococcus aureus* to amoxicillin/EDFWHULD WR DQWLELRWLFV ZDV V suggested that further research is needed. The results of the study suggest that the need for regular monitoring of the **etiological spectrum of pathogens** and their susceptibility to antibiotics.

Results:

Escherichia coli, 12 (23.5%) had Klebsiella pneumoniae, eight (15.7%) patients had Pseudomonas aeruginosa, four (7.8%) had *Staphylococcus aureus*, three (5.9%) had *Klebsiella pneumoniae*, one (1.9%) had Burkholderia vietnamiensis. Two types of enterobacteriaceae were identified: *Klebsiella pneumoniae* and *Pseudomonas aeruginosa*. The isolates were tested against various antibiotics and gentamicin drugs of the second and third generations of aminoglycosides. Meropenem, which belongs to the class of carbapenems, was found to be effective against all isolates.

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