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عنوان مقاله:

Bacterial Urinary Tract Infections in North West of Iran: A Cross-Sectional Study

محل انتشار:

مجله علمی پژوهشی دانشگاه علوم پزشکی زنجان, دوره 31, شماره 148 (سال: 1402)

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نویسندگان:

Erfan Fakheri - Student Research Committee University of Medical Sciences, Zanjan, Iran

Niloufar Kazemi - Student Research Committee University of Medical Sciences, Zanjan, Iran

Narges Moradi - Department of Life Technologies, University of Turku, Turku, Finland

Bahman Mirzaei - Department of Medical Microbiology and Virology, School of Medicine, Zanjan University of Medical Science, Zanjan, Iran

خلاصه مقاله:

Background and Objective: Bacteria play a major role in urinary tract infections (UTIs); therefore, it is necessary to be aware of their regional prevalence and the causative pathogens for better prognosis and rapid treatment in clinical settings. This study aims to evaluate the prevalence of bacterial isolates involved in UTI samples and their antibiotics resistance pattern. Materials and Methods: In this cross-sectional study, bacterial infections from ۴۲۱۴ urine samples were analyzed from December ۲・۱۶ to December ۲・۱۸. After biochemical tests, disk diffusion susceptibility procedures were performed on all positive clinical cultures, according to CLSI guidelines. The obtained data were sorted and statistically analyzed by SPSS 7۶. Results: Out of τδΛΥ suspected UTIs samples, ۲・・۶ (Δ۶%) were females and \Δνγ (۴۴%) males in the --93 years old age range and mainly consisting of middle-aged and elderly patients (۶۲.۲%). Escherichia coli (Δτ.5τ%) and Staphylococcus epidermidis (\Δ.33%) were the most frequent isolates. Among gram negative bacteria, nitrofurantoin and among gram- positive, vancomycin represented the lowest resistance rates at τΔ.7τ% and τ۶.ντ% respectively. Piperacillin showed the least efficacy with a resistance rate of ν۶.·τ%, followed by cefazolin with a ντ.3τ% resistance rate. In gram positive bacteria, vancomycin and gentamicin showed more promise with respective resistance rates of \13.πτ% and τν.πτ%. The highest resistance was associated with ampicillin (۶λ.۶\%) and Trimethoprim/Sulfamethoxazole (۶۶.·۶%). Conclusion: Alarming resistance rates were observed in ampicillin and piperacillin, which should be taken into account in therapy guidelines in this area. Prevalence of resistant strains can be avoided by developing appropriate healthcare policies and community .awareness

كلمات كليدى:

Antimicrobial Resistance, Bacteria, Hospital-acquired Infection, Urinary Tract Infection

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