

عنوان مقاله:

DETERMINATION OF ANTIBIOTIC RESISTANCE PATTERN IN ENTROBACTERIACEAE ISOLATED FROM
HOSPITAL WASTEWATER IN KARAJ

محل انتشار:

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خلاصه مقاله:

Background and Aim:Over the past decades, awareness of the environmental load of resistant organisms has grown tremendously. The presented paper focuses on determination of antibiotic resistance pattern in Entrobacteriaceae strains isolated from hospital's wastewater in Karaj.**Methods:**A total of 100 Entrobacteriaceae strains isolated from hospital's wastewater in Alborz province during the summer of 2018. Bacterial strains were identified by standard microbiological and biochemical tests. The antimicrobial susceptibility test was determined according to Kirby Baur assay.**Results:**Of 100 Entrobacteriaceae isolates, 27 were E.coli followed by entrobacter 27, cirobacter frundi 24, proteus vulgaris 5, Klebsiella oxitoca 7, Klebsiella pneumoniae 3, citrobacter koseri 2, Shigella sonei 2, Psudomonas aeroginosa , Serratia marcescens and Klebsiella ozaenae 1, respectively in decreasing order. Resistance to amoxicillin was observed in 66% of isolates. Resistance to other antibiotics were as follows: nalidixic acid 40%, tetracycline 36%, ciprofloxacin and cefotaxim 13%, ceftazidim 10%, ceftriaxone 7% and cefepim 2%.**Conclusion:**This study reflects an increasing prevalence of antibiotics resistant strains circulating in the wastewater. Dissemination of .these resistance genes is of particular concern

کلمات کلیدی:

wastewater, Entrobacteriaceae, antibiotic resistance

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