

عنوان مقاله:

Prevalence of bla VIM, bla IMP, and bla KPC Genes among Carbapenem-Resistant Klebsiella pneumoniae (CRKP) Isolated from Kurdistan and Isfahan Hospitals, Iran

محل انتشار:

مجله تحقيق در پزشكى مولكولى, دوره 6, شماره 2 (سال: 1397)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

Background: Carbapenem resistance among Klebsiella pneumoniae is an emerging problem worldwide. One of the main mechanisms of resistance to carbapenems is the potential of Klebsiella pneumoniae to produce carbapenemase enzyme. This study was conducted to determine the frequency of blaVIM, blaIMP, and blaKPC among carbapenem-resistant K. pneumoniae (CRKP) isolated from Kurdistan and Isfahan hospitals. Materials and methods: This study was carried out in Iran using 1AP samples from the Besat and Alzahra hospitals in Yo1Y. Antibiotic susceptibility tests were performed by Kirby-Bauer disc diffusion. The modified Hodge test (MHT) was used to investigate the presence of carbapenemase. The β -lactamases genes were detected by PCR. Results: The highest and lowest rates of resistance were observed against cefotaxime (9A.Y%) and gentamicin (FP.F%), respectively. Among the 1AP isolates, 1PF (YP.Y %) were positive by the MHT. The prevalence rates of blaVIM, blaIMP, and blaKPC were F (Y.1A%), 1 (o. Δ %), and o%, respectively. Conclusion: The prevalence of CRKP strains is a major concern and infection control processes are needed. These gene showed a low prevalence in our country, likely because other mechanisms of resistance to .carbapenems are involved

كلمات كليدى:

blaVIM, blaIMP, blaKPC, Carbapenemase, Klebsiella pneumoniae

لینک ثابت مقاله در پایگاه سیویلیکا:

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