

## عنوان مقاله:

Prevalence of Class ۱ Integron in Klebsiella Pneumoniae Isolates from Hospitals of Sanandaj, Iran

## محل انتشار:

مجله بین المللی آزمایشگاه پزشکی، دوره 7، شماره 1 (سال: 1398)

تعداد صفحات اصل مقاله: 6

## نویسنده:

پگاه شکیب - *Razi Herbal Medicines Research Center, Lorestan University of Medical Sciences, Khorramabad, Iran*

## خلاصه مقاله:

Background and Aims: Integrons as mobile genetic elements are located on the chromosome or on a plasmid in bacteria. Integrons play a main role in the dissemination of antibiotic resistance genes among different families of bacteria. The aim of this study was to identify the prevalence of class ۱ integron in Klebsiella pneumoniae isolates from hospitals of Sanandaj, Kurdistan province, Iran. Materials and Methods: Seventy Klebsiella pneumoniae isolates were collected from Hospitals of Sanandaj. Antibiotic susceptibility pattern was performed by disc diffusion method. Class ۱ integrons gene was screened by polymerase chain reaction assay. Data were analyzed by Fisher tests with STATA software program. Results: The highest and lowest rates of resistance were related to cefotaxime and imipenem, respectively. Thirteen (۱۸.۵%) out of ۷۰ Klebsiella pneumoniae isolates carrying class ۱ integron gene. Out of ۲۸ multidrug resistant isolates, ۱۱ isolates were identified to be positive for the existence of class ۱ integrons. Conclusions: .class ۱ integron positive isolates, compared to class ۱ integron negative isolates, reveals resistance to more antibiotics

## کلمات کلیدی:

Class ۱ Integron, Klebsiella pneumoniae, PCR assay, Class ۱ Integron, Klebsiella pneumoniae, disc diffusion method, PCR assay

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1608809>

