## عنوان مقاله:

The frequency of integrons of antibiotic resistant in Stenotrophomonas maltophilia isolates in Hamadan/Iran

## محل انتشار:

فصلنامه میکروب شناسی پزشکی ایران, دوره 10, شماره 4 (سال: 1395)

تعداد صفحات اصل مقاله: 7

# نویسندگان:

Fahime Hajiahmadi - Department of Microbiology, Hamadan University of Medical Sciences, Hamadan, Iran

Nasim Safari - Department of Microbiology, Hamadan University of Medical Sciences, Hamadan, Iran

Pegah Alijani - Department of Microbiology, Hamadan University of Medical Sciences, Hamadan, Iran

Alireza Mordaddi - Department of Microbiology, Hamadan University of Medical Sciences, Hamadan, Iran

Mohammad Reza Arabestani - Brucellosis Research Center, Hamadan University of Medical Sciences, Hamadan, Iran

#### خلاصه مقاله:

Background and Aim: Stenotrophomonasmaltophilia is an important multidrug-resistant nosocomial pathogen that leads to respiratory tract infections and urinary tract. Due to the increasing of antibiotic resistance in S. maltophilia, treatment of infections caused by these bacteria has been difficult. The aims of this study was detection of antibiotic resistance pattern and identify of class I and II integrons and associated gene cassettes in clinical isolates of S. maltophilia. Materials and Methods: In this cross-sectional study, of YFF clinical specimen were collected from educational hospitals of Hamadan university of medical sciences, IY isolates of S. maltophilia were collected in Yold. After the culture, isolates were verified by standard biochemical methods. Antibiotic susceptibility was determined against IY antibiotics. Presence of Class I and II integrons genes were tested using specific primers by PCR. Results: In the pattern of antibiotic resistance, the highest resistance rate showed to Cefditoren, Ceftriaxone, Cefotaxime antibiotics and the lowest resistance to Amikacin, Imipenem, Ofloxacin, Trimethoprim-Sulphamethoxazole and Ciprofloxacin antibiotics were reported. All S. maltophilia strains carried class I integrons. No isolate carry class II integrons and gene cassettes. Conclusions: The result of this study indicates a high prevalence of class I integrons in S.maltophilia isolates. Thus, identification of these resistance genes for infection control programs and to prevent the spread of resistant strains is very important

## كلمات كليدى:

Stenotrophomonas maltophilia isolates, Integron, Antibiotic resistance, استنوتروفورموناس مالتوفيلا, اینتگرون, مقاومت آنتی بیوتیکی

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1715534



