

عنوان مقاله:

Antibiotic resistance and biofilm formation of Pseudomonas aeroginosa strains isolated from clinical samples in Kerman, Iran

محل انتشار:

بيستمين كنگره بين المللي ميكروب شناسي ايران (سال: 1398)

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نویسندگان:

.Fahimeh Mahmoodikia - Department of Microbiology, Kerman Branch, Islamic Azad University, Kerman, Iran

.Farokh Rokhbakhsh-Zamin - Department of Microbiology, Kerman Branch, Islamic Azad University, Kerman, Iran

خلاصه مقاله:

Introduction and objectives: P. aeruginosa strains are common pathogens in hospitals as they have ubiquitous nature, ability to survive in moist environments and innate resistance to many antibiotics. The aim of this study was the survey of biofilm formation and drug resistance of Pseudomonas aeruginosa strains. Materials and methods: A total 15 isolates of Pseudomonas aeroginosa were isolated during April to June 2018 from different clinical samples obtained from hospitals in Kerman. All isolates were identified on the basis of their cultural, morphological and biochemical characters and antibiogram was evaluated by Kirby-Bauer's disk diffusion method as well as MIC against common antibiotics by CLSI2016 guide line. Cell surface hydrophobicity (CSH) test and biofilm formation on glass and polyprolene surfaces in shaking and static states were also performed. Results: 20 strains of P.aeruginosa were identified by characteristics as oxidase-positive, motile bacteria with production of a blue, red or brown pigment on King's medium. They were resistant to tetracycline (95%), Chloramphenicol (80%), Imipenem (75%), ceftizoxime (65%), norfloxacin (30%), and Gentamycin (15%). MICs were observed in different values. Maximum cell surface hydrophobicity was 81% about P.aeroginosa IAUK8717 was reported with maximum biofilm formation in shack and static states on glass and polypropylene. Conclusion: Antibacterial surveillance should be performed periodically to monitor the present resistance patterns of P. aeroginosa in different parts of local hospitals such as ICU. Finding accurate information about multidrug resistant strains of P. aeruginosa will allow us for better programming in .resistance interruption in the future

کلمات کلیدی: Pseudomonas aeruginosa, biofilm, Gentamycin

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