

Abstract



Molecular Study of Staphylococcus Epidermidis Strains Isolated from Clinical Specimens from Different parts of Rouhani Hospital (Babol, Iran)

Meysam Maghsoodlou^{1, 2}, Mehdi Rajabnia³, Abolfazl Davoodabadi², Soraya Khafri⁴, Parisa Sabbagh³, Hamed Ghasemtabar⁵, Omid Mohammadi² and Amirmorteza Ebrahimzadeh Namvar^{*2,3}

¹Student Research Committee, Babol University of Medical Sciences, Babol, IR Iran

²Department of Microbiology, School of Medicine, Babol University of Medical Sciences, Babol, IR Iran

³Infectious Diseases and Tropical Medicine Research Center, Babol University of Medical Sciences, Babol, IR Iran

⁴Department of Biostatics and epidemiology, Faculty of Medicine, Babol University of Medical Sciences, Babol, IR Iran

⁵Department of Laboratory Medicine, Shahid Beheshti Hospital, Babol University of Medical Sciences, Babol, IR Iran

Abstract:

Staphylococcus epidermidis is known as the most predominant member of coagulase negative staphylococci which can cause nosocomial infections especially in ICU and NICU wards. The aim of this study was to investigate the molecular characterization of S. epidermidis strains obtained from the Rouhani Hospital in Babol, Iran. In this descriptive study, a total of 60 S. epidermidis strains were collected. Thereafter, the antimicrobial susceptibility testing, the prevalence of mecA and icaD gene was evaluated. Finally the molecular pattern of isolates was determined by using RAPD-PCR technique.A total of 50 clinical strains and 10 environmental isolates were obtained from hospitalized patients from different specimens such as bloodstream, urine, catheter, body fluids and etc. by disc diffusion method the high rates of resistance were belonged to oxacillin (70.5%) and ciprofloxacin (63.9%). The prevalence of mecA and icaD genes was reported 85% and 41.6% respectively. 24 RAPD-Type was identified by using RAPD-PCR method which indicates the high genotypic diversity in the S. epidermidis isolates. The high risk of transmission of infection between the wards and also the Rouhani Hospital staff should be taken seriously.



Biography:

Meysam Maghsoodlou is a master Degree of Medical Microbiology at Babol University of Medical Sciences in Iran.He is from in Gorgan City and interested in connecting with my own disciplines around the world.

Recent Publications:

 Meysam Maghsoodlou, et al; Molecular Study of Staphylococcus Epidermidis Strains Isolated from Clinical Specimens from Different parts of Rouhani Hospital (Babol, Iran); 2020

Webinar on Immunology | August 30, 2020 | Osaka, Japan

Citation: Meysam Maghsoodlou; Molecular Study of Staphylococcus Epidermidis Strains Isolated from Clinical Specimens from Different parts of Rouhani Hospital (Babol, Iran); Applied Webinar on Clinical Microbiology; July 24, 2020; Paris, France