

عنوان مقاله:

Molecular typing of Acinetobacter baumannii isolated from ICU patients by ERIC-PCR

محل انتشار:

بیستمین کنگره بین المللی میکروب شناسی ایران (سال: 1398)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Introduction and Objective: Acinetobacter baumannii is an opportunistic Gram-negative pathogen that is being reported with increasing frequency as causes of nosocomial infection. A. baumannii is mostly a cause of septicemia, pneumonia and urinary tract infection following hospitalization of patients. This organism has been shown resistance to different antimicrobial agents. Multidrug resistant (MDR) A baumannii strains are first line causes of infection, especially in patients hospitalized at intensive care units (ICUs). The aim of this cross sectional study was typing of Acinetobacteria and determining the relevant clones that can help in the selection of appropriate antibiotic therapies. **Materials and Methods:** A.baumannii strains were isolated from a total of 100 samples from ICU. These samples were mainly respiratory samples. Enterobacterial repetitive intergenic consensus-polymerase chain reaction (ERIC-PCR) fingerprinting was used to determine the clonal relationship between the different isolated strains. **Result:** Out of 100 clinical samples, 62 A.baumannii were isolate and confirmed. Using ERIC-PCR fingerprinting genotype analysis, 62 strains of A. baumannii were clustered into seven groups. our results revealed that seven main clusters were responsible for the prevalence of A. baumannii complex strains at the ICU. **Conclusions:** This study found that the increase in the frequency of A. baumannii in patients at ICU. The use of molecular epidemiological methods can help .us with the detection of the pathogen and preventing from spreading of these resistant strains

کلمات کلیدی:

Acinetobacter baumannii, Typing, ERIC-PCR

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