

عنوان مقاله:

Isolation and Identification of Different Bacterial Species from Bronchoalveolar Lavage of Cystic Fibrosis Patients in Shiraz

محل انتشار:

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خلاصه مقاله:

Introduction and objectives: Cystic Fibrosis is the most prevalent autosomal recessive hereditary disease in the world that affects various organs of the body. The most important cause of death in these patients is lung involvement, and 90% of children with CF do not survive due to lung problems. The aims of this study were to evaluation bacteria that presence in bronchoalveolar lavage of CF patients. Materials and Methods: In these study 30 samples of bronchoalveolar lavage and sputum of CF patients were examined by culture and biochemical method. Then different isolates were confirmed by PCR of 16S rRNA gene and finally sequencing was performed. Results: In this study, the most bacterial isolate from bronchoalveolar lavage of CF patients were involved in polymicrobial infections, including Staphylococcus, Pseudomonas, Neisseria flavorans (according to DNA sequencing), Delftia acidovorans (according to DNA sequencing) and Klebsiella. Conclusion: Identifying the bacteria that are colonized the lungs of CF patients is important. Although P. aeruginosa is one of the main bacteria, attention to the isolation of other bacteria can be useful .in the selection of antibiotics

کلمات کلیدی:

Cystic Fibrosis, 16S rRNA sequencing, Pseudomonas aeruginosa

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