

عنوان مقاله:

Determination of the prevalence of *Acinetobacter baumannii* isolated from clinical samples by PCR molecular method in Tehran, Iran

محل انتشار:

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

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خلاصه مقاله:

Introduction: *Acinetobacter baumannii* is an opportunistic gram-negative bacterium that is commonly found in hospital infections, especially in the intensive care units (ICU). The present paper aims at Determination of the prevalence of *Acinetobacter baumannii* isolated from clinical samples by PCR molecular method in the city of Tehran. **Materials and Method:** In this study, 200 clinical samples from ulcer, pus, sputum, and blood were collected in Mostafa Khomeini, Tohid and Motahari hospitals in Tehran. The identity of the samples was verified by conventional standard biochemical tests and then by PCR and blaOXA-51-like gene amplification methods. **Results:** In this study, 60 isolates of *Acinetobacter baumannii* were identified based on biochemical differential tests, the identity of all of which were confirmed by blaOXA-51-like gene amplification through the PCR method. 25 samples were isolated from the ICU, 17 from infectious ward, 13 from the EMC, and 5 from other departments; by which, 25 blood samples (41.7%), 15 pus samples (25%), 12 ulcer samples (20%), and 8 urine specimens (13.3%) were obtained. **Conclusion:** *Acinetobacter baumannii* is one of the most important causes of hospital infections. The highest number of *Acinetobacter baumannii*-positive cases was related to ICU and infectious wards.

کلمات کلیدی:

Acinetobacter baumannii, hospital infections, PCR

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