

Isolation of 52 Multi Drug Resistant *Acinetobacter* of Several Sections Hospital in Shahrekord, Iran

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Background & Objectives: *Acinetobacter baumannii* is a multi drug resistant organism associated with high morbidity and mortality. It is an emerging nosocomial pathogen in many parts of the world. The aim of the present study was to review the incidence of *Acinetobacter* in several section hospitals in shahrekord, Iran and also to find out pattern of antibiotic resistance of *Acinetobacter*.

Methods: In the study we detected 52 positive cultures of *Acinetobacter* from 52 patients in different wards of several hospitals in sharekord, Iran. Disk diffusion methods was used to determine the resistance of isolated *Acinetobacter baumannii*. The available antimicrobial sensitivity to 8 antibiotics was analyzed. The following antibiotics were tested: ceftioxone, ,cholestin, cefotaxime ,cefepime, trimethoprim-sulfamethoxazole, amikacin, ciprofloxacin, imipenem.

Results: The most frequently sites of infection were wound, respiratory tract, blood Stream and urinary tract. The most incriminated wards were intensive care unit and surgery sections with high prevalence of respiratory tract infection, pneumonia and septicemia due to *Acinetobacter*. *Acinetobacter* was isolated from wound in 13.7%, tracheal discharge 30%, urine in 5.7%, and blood in 12.3%. CSF in 11% and brochoalveolar lavage (BAL) in 6.7%.

Conclusion: *Acinetobacter baumannii* showed resistance to ceftioxone, cefotaxime, trimethoprim sulfamethoxazole, imipenem, and ciprofloxacin, cefepime 100%. sensitive to amikacin 25%, intermediate result to amikacin 23%, sensitive to cholestin 21.1% were evaluated. *Acinetobacter baumannii* an increasingly isolated pathogen in Iran. prevalence of cephalosporins resistant *Acinetobacter* is high in our study. Newer antimicrobial compound is needed for treatment of this infection

Keywords: *Acinetobacter baumannii*; Nosocomial Infection; Multi Drug Resistant