**ID: 2193**  
**Congress: The First International Congress of Medical Bacteriology**  
**Title:** Efficacy of tigecycline, minocycline and colistin against multidrug resistant Acinetobacter baumannii  
**Authors:** Afreenish Hassan

**Abstract:**

Introduction and Objective: Acinetobacter baumannii has now got itself established as a very common and difficult to treat nosocomial pathogen. Its ability to develop resistance against the major groups of antibiotics limits therapeutic options. Very few antibiotics can be reliably used against this resistant organism. We have conducted this study to find out the efficacy of tigecycline, minocycline and colistin against MDR A. baumannii isolated from a tertiary care hospital of Pakistan.

Materials and method: The study was carried out at the Department of Microbiology, Army Medical College/National University of Sciences and Technology, looking after an 1100 bedded tertiary care hospital. Routine clinical specimens were received from various wards. A. baumannii was identified using standard microbiological procedures (Gram's stain appearance, colonial morphology, catalase test, cytochrome oxidase reaction, motility, API 20NE). MDR was defined as isolates simultaneously resistant to aminoglycosides, carbapenems and fluoroquinolones. Minimum inhibitory concentration was performed by using E-strips (AB-Biodisk) of colistin, minocycline and tigecycline for each isolate. Results were interpreted by using SPSS version 17.0.

Results: A total of 100 MDR A. baumannii were tested. Colistin found out to be the most effective among the three antibiotics tested. All the isolates were susceptible to colistin. Minocycline was better in activity than tigecycline against MDR A. baumannii. 94% isolates were susceptible to minocycline and 80% were susceptible to tigecycline.

Conclusion: Colistin and minocycline, cost effective antibiotics, can be reliably suggested against infections caused by MDR A. baumannii. Emerging resistance against Tigecycline and its high cost hinders its use as first choice.

**Colistin, Minocycline, Tigecycline, Acinetobacter baumannii, Multidrug Resistant**  
**Presentation:** Poster