

June 21-22, 2018 Paris, France EuroSciCon Conference on

Microbiology & Virology

Arch Clin Microbiol 2018 Voulume: 9 DOI: 10.4172/1989-8436-C3-012

THE MAJOR RISK FACTORS AND OUTCOMES OF EXTENSIVELY DRUG-RESISTANT *ACINETOBACTER BAUMANNII* ACQUISITION IN A MOROCCAN SURGICAL INTENSIVE CARE

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cinetobacter baumannii has emerged as an important nosocomial pathogen causing worldwide hospital outbreaks. This Amicro-organism can cause a wide range of infections, including bacteremia, pneumonia, urinary tract infection, peritonits, etc. The aim of this study was to determine the risk factors and outcomes related to the acquisition of extensively drug-resistant Acinetobacter baumannii in a Moroccan surgical intensive care unit (ICU). This study was conducted from March 2015 to Febraury 2016 in a 10-bed clinical and surgical tertiary ICU of Ibn Tofail University Hospital Mohammed VI in Marrakesh-Morocco. The adult patients with a first clinical episode of infection were included in the study. The level of antibiotic resistance has been studied by the agar diffusion method, the choice of antibiotic susceptibility testing and interpretation criteria were made as recommended by the Antibiogram Committee of the French Microbiology Society (AC-FMS) and standards of the European Committee on Susceptibility (EUCAST, 2015). Obtained results showed that among 225 isolated bacteria, 85 of these isolates were represented by A. baumannii and all A. baumannii strains were resistant to imipenem, which represented 72 % of the multidrug resistant (MDR) bacteria. The increasing and alarming antibiotic resistance levels were observed with gentamicin 94%, tobramycin 93%, ciprofloxacin 95%, amikacin 75% and only 48% were resistant to trimethoprim-sulfamethoxazole. However, all A. baumannii tested strains were sensitive to colistin. The study shows also that infections associated to this deadly bacteria were mainly represented by pneumonia 48%, catheter-related bloodstream infection 30% and bacteremia 17%. These findings suggest the requirement of constant monitoring of MDR A. baumannii in order to decide which patients need isolation and prevent the transmission of this pathogen bacteria in the ICUs.

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