TITLE: Catheter-ASSOCIATED URINARY TRACT INFECTION (CAUTI) IN INPATIENTS OF A BRAZILIAN HOSPITAL: BACTERIAL SUSCEPTIBILITY PROFILE STUDY

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ABSTRACT:

Healthcare-associated Urinary tract infections are among the major concern regarding patients admitted to intensive care units (ICU), and multiresistant uropathogens are a growing challenge for clinical treatments. This study aimed to analyze the etiological agents of CAUTI and their antimicrobial susceptibility profile. A total of 120 urocultures were performed with samples from patients with indwelling urinary catheter at the ICU of a Hospital at Lagoa da Prata, MG. Samples were collected from June 2015 to June 2016, and 37 cultures presented only one species of microorganisms identified with countings ≥10⁵ CFU/mL. The microorganisms isolated were: Escherichia coli (46%), Klebsiella pneumoniae (18.9%), Enterobacter cloacae (5.4%), Citrobacter youngae (2.7%), C. freundii (2.7%), Acinetobacter baumannii (2.7%), Pseudomonas aeuroginosa (2.7%), Staphylococcus epidermidis (2.7%) S. haemolyticus (2.7%), S. sapropyticus (2.7%), β-hemolytic Streptococcus (2.7%), Candida tropicalis (5.4%) and C. albicans (2.7%). Using VITEK II we detected Gramnegative and Gram-positive bacteria resistant to at least three and six antimicrobials classes, respectively, extended spectrum β-lactamases in 35.3% of *E. coli* isolates, and yeasts were sensitive to three antifungal classes. The statistical analysis indicated that there was no significant difference regarding the variation of microorganisms detected between men and women (P> 0.05). The predominant age group was over 60 years old. There was no statistical difference in age between patients who had positive or negative results for microbial isolation in urocultures (P> 0.05). Due to the extension of the Brazilian

territory and the regional differences related to the antimicrobial susceptibility profile, our data becomes even more relevant.

Keywords: Catheter-associated urinary tract infection, intensive care unit, uropathogens, antimicrobial susceptibility profile

Development Agency: FAPEMIG, CNP-q, PRPq/UFMG