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Outcome of empirical antibiotic treatment and urinary catheter colonization in patients admitted to intensive unit of Siloam Teaching Hospital, Tangerang, Indonesia

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Background & Aim: Around 12-16% adult patients admitted to hospital, used urine catheter during their hospitalization. Furthermore, the incidence of positive urinary catheter colonization in intensive unit is 20%. The aim of this study is to observe the role of empirical antibiotics usage and urinary catheter colonization in patients admitted to the intensive unit of Siloam Teaching Hospital.

Material & Methods: This cross-sectional study conducted from January 2013 to December 2014. Two hundred and eighteen (218) urine culture data were collected and 49 were eligible for inclusion criteria such as complete medical record and using urine catheter more than 48 hours. Prior empirical antibiotic usage and the outcome of culture were analyzed using chi-square method and the mean difference characteristics of the patients were analyzed using t-test.

Results: Of 49 patients had complete data and used urine catheter, characteristics of patients between patients with positive colonization and no colonization were listed. There were 6/15 (40%) patients with colonization and 26/34 (76.5%) patients with no colonization that were treated with empirical antibiotics. The analysis of chi square shows the significant association of colonization with empirical antibiotics (p value=0.013). Meropenem 1 gm TDS IV (14/49 or 28.6%) and amikacin 1 gm OD IV (10/49 or 20.4%) were the two most used antibiotics in this study.

Conclusions: Usage of empirical antibiotics has a significance difference in urinary catheter colonization in patients admitted to intensive unit.

Biography

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