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Nosocomial Infection Monitoring Using Urine Catheter

Abstract

The objective of this research was to study the onset of urinary tract infection in patients using an indwelling catheter and the pattern of bacteria causing nosocomial infection. In-patients using urinary catheter in the neurology, surgery and internal medicine wards of Dr Soetomo Teaching Hospital were studied. Urine catheter samples were obtained by aspiration. Patients with UTI before catheterization and positive cultures at the first catheterization were excluded. Urine cultures were examined on day 3, day 5 and day 7 after catheterization using the BBL Urotube. Of 32 urine catheter samples with negative cultures at the first catheterization, 30 urine catheter samples have been examined. The incidence of hospitalized positive urine culture was 11 of 30 (36.6%) while the true UTI was 5 of 30 (16.7%). Gram positive cocci were 2 of 11 (18.2%), Gram negative bacilli were 7 of 11 (63.6%) and Candida sp were 2 of 11 (18.2%). Microorganism grew initially on day 3, four of 30 (13.3%) and increased on day 5, five of 15 (33..3%) as well on day 7, two of 6 (33.3%). This study concluded that urinary tract infection in patients using urinary catheter initially occurred on day 3. Gram negative bacilli were the most prevalent uropathogens in CAUTI.

Keyword: Catheter-associated, Urinary, Tract, Infection, (CAUTI), Nosocomial, Infection, Urotube,

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