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## The efficacy of silver-coated urinary Catheters in Reducing Urinary Tract Infection

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**Background:** Catheter Associated Urinary Tract Infections (CAUTI) is the most common nosocomial infection at ICUs. Urinary infections can increase patient's length of stay and mortality. One of the strategies to reduce CAUTI is the use of silver coated urinary catheters.

**Aim:** Aim of this study is to explore the efficacy of silver-coated urinary catheter on reducing CAUTI.

**Methods:** An experimental design was used and the study was conducted in ICU at King Fahd University Hospital, Al-khobar, Eastern Province. The study subjects include 60 adult patients (18 years or more) who were on urinary catheter attending during the period of data collection and were randomly divided to two groups. Two instruments were used for data collection: 1) Demographic and Medical Data Sheet, 2) CAUTI Sheet.

**Results:** There was a statistical significance difference between the two groups among symptoms of UTI, temperature, and WBC ( $P < 0.05$ ). The patients having silver –coated catheter has less organisms in the blood. Fewer leukocytes, bacteriuria and yeast cell in urine culture when compared to uncoated catheter patients after 3 days. CAUTI rate was a statistically significant difference between the two groups ( $p = 0.003$ ).

**Conclusion & Recommendation:** It can be concluded that the use of silver alloy coated urinary catheter reduces the incidence of CAUTI rate to 2.2% per three days compared to uncoated catheter rate of 13.3% per three days. It can be recommended that changing practice to use the silver coated Foley catheter to decrease risk of CAUTI.

### Biography

Hanan Elkafafi Hassan is working as an Assistant Professor of Medical Surgical Nursing at Nursing College, Cairo University. She moved to KSA and worked as an Assistant Professor in Nursing College at Dammam University till 2015 then she moved to King Saud bin Abdul-Aziz University for Health Sciences. She teaches many courses for undergraduates and postgraduates, participated in supervising of Master's projects and students researches as an Academic Supervisor. She has published many national and international research articles. She has experience in quality assurance and accreditation in higher education. Her interested area of research is Education and Clinical Research.

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