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**To compare the effectiveness of perineal care with catheter in situ using soap and water, 0.9% Normal Saline and 10 percent povidine iodine solution in the prevention of Catheter associated urinary tract infections among patients admitted in selected units of Nehru Hospital, PGIMER, Chandigarh**

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**P**atients who are on urinary catheter are often dependent for their hygiene needs which if neglected causes urinary tract infection.

**Objective:** To compare the effectiveness of perineal care with catheter in situ using soap and water, 0.9% Normal Saline and 10 percent povidine iodine solution in the prevention of Catheter associated urinary tract infections among patients admitted in selected units of Nehru Hospital, PGIMER, Chandigarh.

**Methods:** The subjects were assessed for baseline infection by assessing urine culture on enrolment on first day; thereafter they were provided daily perineal care for 7 days. The cultures were sent on 3rd and 7th day also temperature was recorded daily

**Results:** 0.9% Normal Saline intervention group had no infection on the 3<sup>rd</sup> and 7<sup>th</sup> day respectively, whereas in soap and water intervention group and 10 percent povidine iodine intervention group 90% percent of the subjects did not have Catheter associated UTI, however the results were statistically not significant. Comparing the cumulative incidence rate, it was 22.22/1000 catheter days for Soap and water intervention group and 0/1000 catheter days for both 10% Povidine iodine solution intervention group and 0.9% Normal Saline Intervention group for the 3<sup>rd</sup> day and by the 7<sup>th</sup> day the cumulative incidence rate of CAUTI in all the three groups were 13.04/1000 catheter days, 12.71/1000 catheter days and 0/1000 catheter days respectively ( $p>0.05$ ).

**Conclusion:** From the present study, it is recommended that 0.9% Normal Saline is the most effective perineal care agent as the cumulative incidence rate was zero even though the results were statistically not significant.

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