

## LETTERS TO THE EDITOR

## INFECTION CONTROL

To the Editor:

I am writing in reference to the article "Guideline for Prevention of Catheter-Associated Urinary Tract Infections" [Infect Control 1981; 2(2):125-

According to the article, it is recommended to refrain from daily meatal care with povidine-iodine solution and daily cleansing with soap and water. However, no substitution for catheter care was made. Could you please elaborate on this, since it sounds rather risky to just drop the above procedure for meatal care?

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This letter was referred to Drs. Wong and Hooton, who wrote the following reply:

Meatal care has been advocated for years as one measure to reduce the risk of urinary tract infection in catheterized patients. Studies have demonstrated that patients who are colonized at the meatal-catheter junction with certain microorganisms such as gramnegative bacteria and enterococci are more likely to develop bacteriuria than are patients who are not so colonized. 1,2

It is believed that microorganisms migrate retrograde from the meatus along the periurethral mucous sheath into the bladder where they cause infection. Therefore, it has been theorized that removal of these microorganisms through meatal care would reduce the risk of infection. Early studies, in fact, did show some beneficial effects of

study of the efficacy of meatal care to drainage systems, Burke and his assowith povidone-iodine solution foliodine ointment, and daily cleansing daily bath. with soap and water) had no lower incidence of cathether-associated bacteriuria than patients who received no special meatal care. In a subgroup of female patients at high risk of infection, special meatal care regimens resulted in significantly higher rates of bacteriuria, suggesting that there may be some hazard associated with these regimens.

Given the statistical association between meatal colonization and bacteriuria,<sup>2</sup> the rationale for including meatal care procedures in the care of patients with indwelling urinary catheters is strong. The careful study by Burke and his associates, however, suggests that the two commonly practiced meatal care regimens are not effective and may even be harmful. Thus, we are faced with a dilemma when trying to make specific recommendations to hospitals regarding meatal care. Clearly, Burke's results

meatal care, 3,4 but these studies were should be confirmed by other investiconducted with patients who were gators, and further studies should be maintained on an open drainage sys- conducted to evaluate the value of tem or who were subjected to other alternative regimens of meatal care, kinds of interventions, such as antibi- such as more frequent application of otic irrigation, which confounded the povidone-iodine solution or ointment and the use of other antimicrobial In the only controlled prospective formulations that have a more sustained antibacterial action. Until dedate done with patients on closed finitive data are available, hospitals may elect to continue regular meatal ciates found that patients subjected to care, following regimens that have not the two most commonly used regimens specifically been shown to be ineffecof meatal care (twice daily cleansing tive in reducing the risk of infection, or to provide only the perineal cleansing lowed by application of povidone- that patients generally receive with the

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- 2. Garibaldi RA, Burke JP, Britt MR, Miller WA, Smith CB. Meatal colonization and catheter-associated bacteriuria. N Engl J Med 1980: 303:316-8.
- 3. Desautels RE. Aseptic management of the urethral catheter. N Engl J Med 1960; 263:189-91.
- 4. Desautels RE, Linton KB, Miller H et al. Technical advances in the prevention of urinary tract infection. J Urol 1962; 87:
- 5. Burke JP, Garibaldi RA, Britt MR, Jacobson JA et al. Prevention of catheterassociated urinary tract infections. Efficacy of daily meatal care regimens. Am J Med 1981; 70:655-8.

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