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Afshar Zomorodi

Imam Reza Hospital-Tabriz University of Medical Sciences, Iran

Does early removal of Foley catheter have any influence on infection of recipient post renal transplantation? Is it safe? A clinical trial study

Introduction: Kidney transplant is a fair option for treatment of a chronic renal failure, although the outcome and results of kidney transplant are good, but it may be associated with some complications. One of the important complications is urinary infection. The aim of this study was to investigate the role of early removing of the catheter in renal transplant patients on the reduction of urinary tract infections.

Materials & Methods: This study was conducted as a clinical trial. 88 transplanted patients were enrolled and randomly divided into two groups. In the first group, the catheter of patients was taken 3 days after the transplant, and in the second group, the catheter of patients were removed 7 days after the transplantation. Urine culture was performed on two occasions. Then, the patient data entered the SPSS v20 statistical analysis program and analyzed the data.

Results: In this study, 25 patients (56.8%) were male in the first group and the mean age of the patients was 43.52 ± 13.6 years. In the second group, 25 patients (56.8%) were female and the mean age of the patients was 43.20 ± 14.39 years. After examining patients' urine tests and analyzing data with T test, the incidence of infection on the day after catheter exits ($P=0.000$) and 7 days after the expulsion of the catheter ($P=0.009$) in the patients in the first group (three days). It was significantly less than the second group.

Conclusion: Early removal of catheter has fundamental effects on UTI post kidney transplant and it seems that early removal of urethral catheter may be safe and reasonable in renal transplant of the recipient patient.

Biography

Afshar Zomorodi is a Professor of Urology and Kidney Transplant Surgeon, Chief of Organ Transplant Department of Imam Reza Hospital, Tabriz Medical Science University, Tabriz-Iran. He completed his education in Tehran University (1974-1981), Tehran, Iran, and MD degree during 1986-1990. He gained a Fellowship in Kidney Transplantation during 1992-1994 from Tabriz Medical Science University, Tabriz, Iran. He gained an Observership in Kidney Transplant and Pediatric Urology, Sickkid's Hospital, Toronto, Canada in 2001.

dr_zomorodi@yahoo.com

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