Peritoneal Dialysis International
www.pdiconnect.com

Perit Dial Int 2004 Mar-Apr vol. 24 no. 2 186-190

Fibrin glue is useful in preventing early dialysate leakage in children on chronic peritoneal dialysis

ET Sojo, MD Grosman, ML Monteverde, MM Bailez and N Delgado

[+] Author Affiliations

Abstract

OBJECTIVE: To assess if application of fibrin glue sealant to the peritoneal cuff suture is useful in the prevention of early dialysate leakage in children with end-stage renal disease on chronic peritoneal dialysis (CPD). DESIGN: Single-center, open-label, prospective randomized study. SETTING: University Pediatric Hospital. METHODS: 52 catheters were implanted in 45 children (mean age 6.2 +/- 4.5 years). Catheters were randomly assigned to either the control group or the sealant group. In the latter group, 1 mL of fibrin glue sealant was applied to the peritoneal cuff suture. 18 catheters were used for the first time within 5 days after implantation (early-used catheters). Leakage, exit-site or tunnel infection, peritonitis, and adverse secondary effects were evaluated during the initial 60 days after implantation. RESULTS: No adverse secondary effects were seen after the application of the fibrin glue sealant. The incidence of exit/tunnel infection and peritonitis was similar in the two groups. The incidence of leakage was significantly lower in the sealant group ($p < 0.02$). In the early-used catheters, leakage was detected in 9% of the catheters in the sealant group and in 57% of the control group ($p < 0.05$). CONCLUSIONS: The application of 1 mL of fibrin glue to the peritoneal cuff suture prevented early dialysate leakage without secondary adverse effects in children on CPD.

Articles citing this article

Consensus Guidelines for the Prevention and Treatment of Catheter-related Infections and Peritonitis in Pediatric Patients Receiving Peritoneal Dialysis: 2012 Update

pdi 2012 32:S32-S86

Full Text Full Text (PDF)