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

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## 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.

## We recommend

Fibrin glue used successfully in peritoneal dialysis catheter leakage in children.

Esther Rusthoven et al., Perit Dial Int , 2004

Chronic peritoneal dialysis catheters in children: a fifteen-year experience of the Italian Registry of Pediatric Chronic Peritoneal Dialysis.

Stefano Rinaldi et al., Perit Dial Int , 2004

Early initiation of continuous ambulatory peritoneal dialysis in patients undergoing surgical implantation of Tenckhoff catheters.

Ya-Fei Yang et al., Perit Dial Int , 2010

Comparing the Incidence of Catheter-Related Complications with Straight and Coiled Tenckhoff Catheters in Peritoneal Dialysis Patients-A Single-Center Prospective Randomized Trial. Chu-Jun Ouyang et al., Perit Dial Int, 2014

A prospective randomized study comparing tenckhoff catheters inserted using the triple incision method with standard swan neck catheters.

Terence Yip et al., Perit Dial Int ,

Central Venous Catheter Care for the Patient With Cancer: American Society of Clinical Oncology Clinical Practice Guideline

Charles A. Schiffer et al., J Clin Oncol , 2016

Intraperitoneal Chemotherapy of Ovarian Cancer: A Review, With a Focus on Practical Aspects of Treatment

Maurie Markman et al., J Clin Oncol ,

Sutureless Valve Implants for Glaucoma Safe, Quick

Fran Lowry, Medscape, 2016

Prophylactic Urokinase in the Management of Long-Term Venous Access Devices in Children: A Children's Oncology Group Study Peter W. Dillon et al., J Clin Oncol,

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Janna M. Journeycake et al., J Clin Oncol , 2006

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