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Theme : Access, Peritonitis and Exit Site Infection

Omental Folding: A Novel Laparoscopic Technique For Salvage of PD Catheters

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Objectives: To evaluate the efficacy of a new technique for the revision of obstructed PD catheters. Omental wrap is a common cause of catheter obstruction. Current laparoscopic techniques for correcting malfunction include omentopexy or partial omentectomy. Omentopexy alters intra-abdominal anatomy and has the potential risk of internal herniation. Omentectomy requires the harmonic scalpel and can cause blood-contamination of the peritoneal cavity. The author describes a simple procedure that prevents recurrent omental wrap. **Methods:** Between September 2005 and February 2006, 7 CAPD patients aged 22 to 61 years (median= 55years; 5 females and 2 males) with catheter malfunction were referred for laparoscopic salvage. Pneumoperitoneum set at 12mmHg was induced under general anaesthesia. Two 10mm and one 5mm ports were inserted. The catheter was released from the omentum and repositioned in the pelvis. The omentum was then folded onto itself in a cephalad direction using clips, endoloop or intra-corporeal suturing. This shortened the omentum. The risk of catheter migration was minimized by one or two Prolene slings anchoring it to the parietal peritoneum. The slings allow removal of the catheter without laparoscopy. The outcomes were prospectively evaluated. **Results:** Omental wrap was the cause of malfunction in all patients. Adhesiolysis was performed in 3 patients. Function was restored on-table in all patients. Operating time was 35-112minutes (median= 52minutes). One patient had port-site leakage of dialysate, which settled with abdominal rest. One patient with extensive intra-peritoneal adhesions developed recurrent catheter obstruction. The catheters in the other 6 patients are functioning after 3 weeks to 10.5months (median= 2.8months) of follow-up. Overall success rate of salvage was 86%. **Conclusions:** Omental folding is a safe and effective technique for salvaging PD catheters. Only the most basic of laparoscopic equipment is needed.