

## **Laparoscopic Salvage of Malfunctioning Tenckhoff Peritoneal Dialysis Catheter: A Single Centre 17-Year Experience**

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### **Objective:**

To review the incidence and outcomes on laparoscopic salvage of malfunctioning tenckhoff peritoneal dialysis catheter (TC), and to identify factors associated with failed salvage procedure.

### **Patients & Methods:**

Patients aged 18 or above with laparoscopic salvage of malfunctioning TC were identified through a territory-wide database. Salvage procedure was performed using 3 laparoscopic ports. Repositioning of catheters, omentectomy, intra-corporeal anchorage, adhesiolysis or in combination were done at the discretion of the operating surgeons. Patients' demographics, past medical history, surgical intervention and outcomes were analysed retrospectively.

### **Results:**

Between July 1997 and August 2014, 1487 TC insertion procedures were performed. Laparoscopic salvage of malfunctioning TC were attempted in 57 (3.8%) patients, of which 52 cases (91.2%) were successful. The most common intra-operative finding was omental wrap (29 case, 55.8%), followed by malposition (27 case, 51.9%) and intra-abdominal adhesion (11 case, 21.2%). 30-day catheter-patency rate after salvage procedure was 82.7%. With mean follow-up of 64.2 months, the median catheter-patency period was 36 months (range 1-117 months). History of previous abdominal surgeries and peritoneal dialysis related complications before salvage procedure were associated with lower early catheter-patency rate.

### **Conclusion:**

Laparoscopic salvage of malfunctioning TC is an effective and feasible measure to prolong catheter survival.