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Easy Tips for Prevent Migration of CAPD Catheter

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INTRODUCTION

Surgical insertion for CAPD (continuous ambulatory peritoneal dialysis) Tenckhoff catheter is a popular procedure for the end stage renal disease patients. Traditionally it was performed by Seldinger technique, inserted the tube to bottom of the patient's pelvic cavity. This procedure is easy and done under local anesthesia but the tube position and tip depth could not be measured precisely because it is a blunt procedure and affect the function and survival rate of the catheter. Many insertion techniques were suggested to improve the insertion procedure. We used a new method via ureteroscope and hydro-peritoneum to improve the procedure since 2015 and majorly improved the outcome of CAPD catheter function. However, the problem of tube migration still bothered us and then we used an easy tips with an nonabsorbable thread (2-0 prolene) to fixed the catheter resolved tube migration problem and here shares this achievements.

AIM

1. Replace traditional Blind Seldinger surgical method and avoid the wastage of medical resources from laparoscopic surgeries.

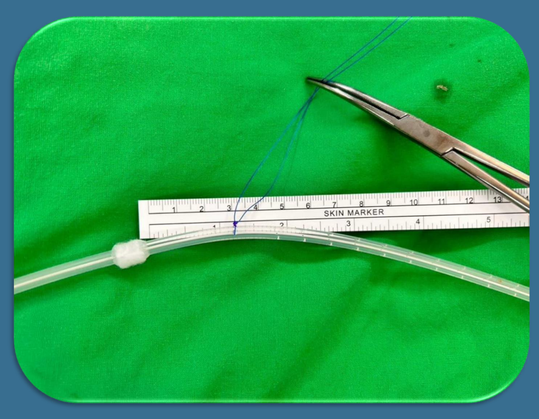
2.Achieve optimal results with the simplest and safest surgical approach to meet the demands of ESG.

RESULTS

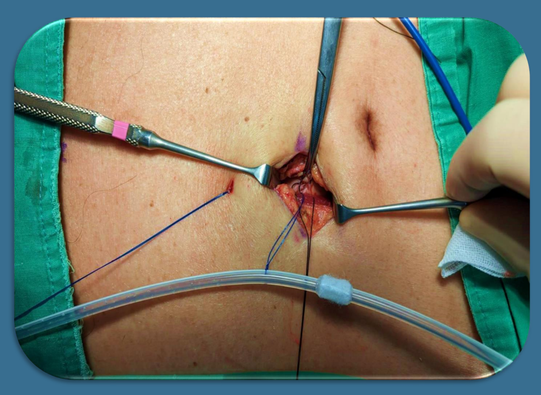
1. From November 2018 to February 2021, 31 ESRD patient was done and no tube migration was noted 1 year tube survival rate 96.67%(30/31) 2 years survival rate 87.1% (27/31) , 8 cases were withdrew due to non-tube causes or death

2. Peritoneal leak 3.2% (1/31), PD-related peritonitis 4% (3/31)

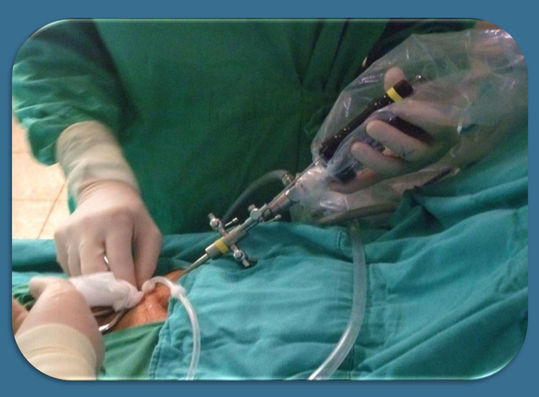
3. No mechanical obstruction, tube migration , visceral injury , internal bleeding and incision hernia



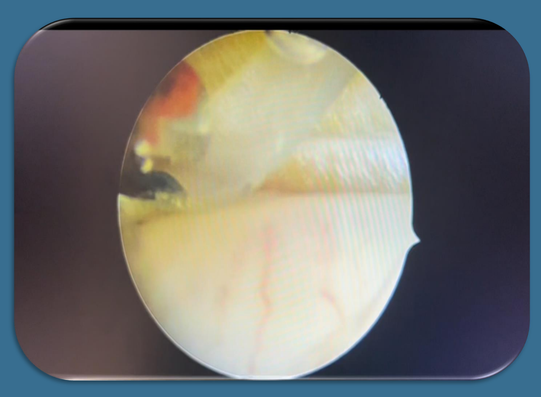
Prolene fixing Tenckhoff tube



Tube tip over Cul-de-sac



Scope insertion procedure



Prolene fixed the tube over abdomen wall

METHOD

1. Under heavy sedation anesthesia, left abdominal infra-umbilical 3 cm skin incision was made and identified the peritoneum through the rectus abdominis muscle obliquely , open peritoneum after making a purse sting suture.
2. A 2-0 prolene thread fixed on the Tenckhoff catheter 3 cm beneath the inner cuff, then pull out 2 sides of the thread 3 cm beneath the opening of peritoneum and 2 points fixation will prevent the tube migration during CAPD procedure later.
3. Inserted the Tenckhoff catheter to Cul-de-sac via hydro-peritoneum and a ureteroscope under direct vision.
4. Post-surgery, test with PD fluid and closed the wound.

CONCLUSIONS

For surgical insertion for CAPD catheter is a popular minor surgical procedure , however tube function affect the life quality of the ESRD patients . The PD cost efficiency is better than hemodialysis so our country promote this procedure for years . We created a novel method with ureteroscope and hydro-peritoneum for insertion the catheter then used a simple tip to prevent migration of the catheter, achieves significant outcome and compatible with the spirit of ESG .

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