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| REVIEW | ARTICLE | lo Dort I | | | Diese | | WJOLS | |
| | Sing | le-Port L | .aparoso | copic | Place | ement o | T | |
| | | Periton | eal Dial | ysis (| Cathet | er | | |
| | | 1 ¹ T | ag Alsir Alamin Log | ıman, ² RK Mis | hra | | | |
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| ABSTRAC | т | | | | | | | |
| Recent a | dvances in laparosc | opic surgery have led | to development of va | arious laparosco | opic techniques | , both for treatment | t of malfunctioning | |
| catheter | and insertion of a dia | alysis catheter. Most of | the techniques use two | o to four ports. | Each port entry | can cause weaknes | s of the abdominal | |
| wall, and | I hence possibility of | leak or hernia. The teo | chnique of single port | has been introc | luced for the m | anagement of obstr | ucted catheter and | |
| insertion | of another catheter. | In this article, we report the bath adult patients | rt and evaluate the res | sults of single p | ort technique in | the placement of te | nckhoff catheter in | |
| | know the officery or | (in both adult patients a | na chilaren). is single port insortio | of poritopool | dialucia cathota | r (tonckhoff) and it | a value in catheter | |
| efficiency | v time nostonerative | complications hospital | stay operation time | | ularysis callele | | | |
| Materials | and methods: A rev | iew of literature by sea | rchina in Gooale, Sprii | nger library faci | ility available at | the world laparosco | py hospital. | |
| | | | | | | | | |

Characteristics of variables: Male : Female ratio, mean age, catheter survival rate, hospitalization period, early and late postoperative complications, rate of hernia and leak, catheter migration, exit site infection.

Keywords: Laparoscopy, Tenckhoff, PD catheter.

DETAILS OF THE PROCEDURE

The procedure is done under general anesthesia; patient was positioned in supine and 5 mm port was inserted for telescope at the left lateral margin of the rectus muscle in the upper quadrant at the midclavicular line. Pneumoperitoneum was created through same port. An intraabdominal pressure was kept below 12 mm Hg during the procedure.

Diagnostic laparoscopy was done; a 5 mm incision was made just to the left of the umbilicus by 2 cm, and a coiled catheter was inserted towards the pelvis in a 45° angle to the abdominal wall.

The catheter position was checked, and patency insured by flushing, and good inflow and outflow obtained.

The catheter was then heparinized and used for dialysis after 2 weeks (Figs 1 and 2).

Mean operation time was 25 minutes.

DISCUSSION AND RESULTS

Laparoscopic Tenckhoff catheter insertion was introduced in 1980. It has advantage over the open and percutaneous methods. It has lower incidence of flow obstruction, less chance of visceral injury and better patient compliance. The single-port method was developed for the management of malfunctioning catheters and insertion of the catheter in a complicated abdominal cavity.

| | Outer skin | |
|---|-----------------------------------|-------------------|
| 6 | Subcutaneous cuff Peritoneal cuff | Peritoneal cavity |
| | Outer skin | 6 |





Fig. 1: Coiled catheter used in laparoscopic method

Fig. 2: Two types of PD catheters: Straight and Coiled

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CONCLUSION

Compared to open and multiple-port techniques, single-port laparoscopic tenckhoff catheter insertion is safe, with very high catheter survival rate, good patient compliance, less early and late postoperative complications, less chances of leak and hernia, less hospitalization time and less exit site infection rate.

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