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Letter to Editor

Single-use electronic gastroscope assisted peritoneal dialysis tube insertion

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Case

To the editor,

A 53 year old male patient was admitted to the Department of Nephrology of China–Japan Friendship Hospital due to “uremia and syphilis”. After obtaining the patient's consent, a single-use electronic gastroscope (Endofresh, Huizhou Xianzan Technology Co., Ltd., China) assisted peritoneal dialysis tube insertion surgery was performed under general anesthesia. After pneumoperitoneum establishing, the trocar was inserted through the navel. Then, the single-use gastroscope was inserted into the abdominal cavity through the trocar hole to observe the abdominal cavity and select the puncture point for the peritoneal dialysis tube (Fig. 1A–B). The endoscopic biopsy forceps was used to place the peritoneal dialysis tube in the best position and guide the fixation line around the peritoneal dialysis tube to fix it (Fig. 1C). The function of “inverting the endoscope” was used to observe the puncture point to confirm that there was no bleeding at the puncture point and trocar hole (Fig. 1D). Finally, withdraw the endoscope. The surgery was successfully completed.

The patient recovered well after the surgery and did not experience abdominal infection, wound infection, postoperative bleeding, etc. The peritoneal dialysis tube was used well.

Our team published “Flexible endoscopy-assisted placement of peritoneal dialysis catheter: Report of the first case” in January

2023.¹We introduced 6 advantages of flexible endoscope in peritoneal catheter placement in the article. Compared to the traditional gastroscope for surgical procedures, single-use gastroscope has the following two advantages²:

- (1) The connection is simple and can be used by simply inserting an optical cable plug on the operating table, making it easier to protect the sterile sleeve compared to traditional gastroscope;
- (2) For patients suffering from infectious diseases (such as syphilis, AIDS, etc.), single-use electronic gastroscope can reduce the risk of infection of decontamination personnel and the risk of cross infection.

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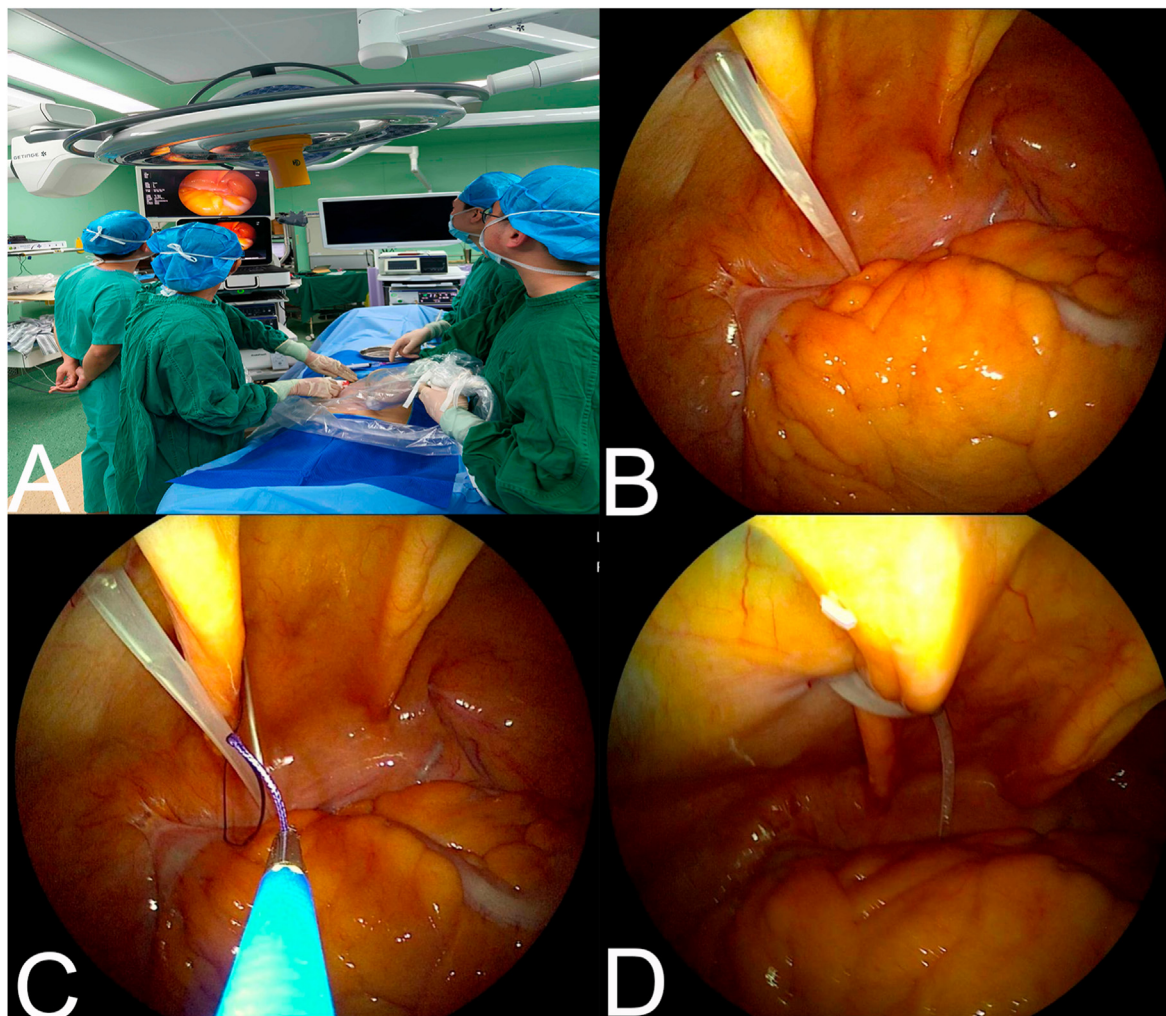


Fig. 1. A Peritoneal dialysis tube insertion using single-use electronic gastroscope. B Inserting the peritoneal dialysis tube. C Using the biopsy forceps to guide the fixation line. D No bleeding was observed after the completion of peritoneal dialysis tube placement.

Declaration of competing interest

The authors have no potential conflicts of interest (financial, professional, or personal), and no company as provided any financial arrangements for this study.

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