



Contents lists available at ScienceDirect

Asian Journal of Surgery

journal homepage: [www.e-asianjournalsurgery.com](http://www.e-asianjournalsurgery.com)

Letter to Editor

## Single-use electronic gastroscope-assisted mastectomy

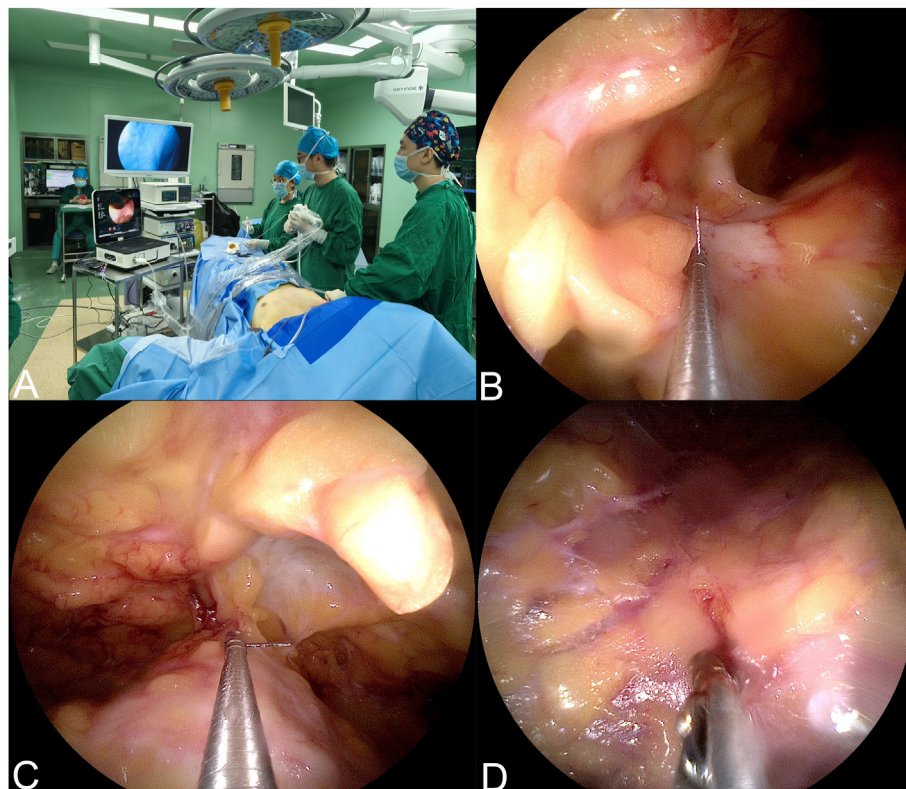
**Keywords:**  
Single-use  
Gastroscope  
Mastectomy

To the editor,

A 30-year-old male was admitted due to gynecomastia. With the consent of the patient, a single-use electronic gastroscope (Endofresh, Huizhou Xianzan Technology Co., Ltd., China) assisted mastectomy was performed under general anesthesia (Fig. 1A). First, inject saline into the patient's breast area to establish a surgical

space. Then make an incision at the patient's midaxillary line and place a trocar. The single-use endoscope was inserted into the subcutaneous space through the trocar hole. The endoscopic scissors (Vedkang, Jiangsu, China) was used to cut the cooper ligament and nipple (Fig. 1B and C). The endoscopic electric hemostatic forceps was used for hemostasis (Fig. 1D). Finally, the inverted mirror function was used to observe the trocar hole, confirming that there was no bleeding, and the surgery was successfully completed. The patient did not experience any postoperative complications such as bleeding and was discharged smoothly.

Our team published "Flexible endoscopy-assisted mastectomy: The first case report" in January 2023.<sup>1</sup> We introduced 6 advantages of flexible endoscope in mastectomy in the article. The single-use endoscopes also have these 6 advantages. Compared to the



**Fig. 1.** (A) The single-use electronic gastroscope was used to mastectomy. (B) The endoscopic scissors was used to cut the cooper ligament. (C) The endoscopic scissors was used to cut the nipple. (D) The endoscopic electric hemostatic forceps was used for hemostasis.

<https://doi.org/10.1016/j.asjsur.2023.12.058>

1015-9584/© 2024 Asian Surgical Association and Taiwan Robotic Surgery Association. Publishing services by Elsevier B.V. This is an open access article under the CC BY-NC-ND license (<http://creativecommons.org/licenses/by-nc-nd/4.0/>).

Please cite this article as: Z. Li, Z. Wang, B. Liu *et al.*, Single-use electronic gastroscope-assisted mastectomy, Asian Journal of Surgery, <https://doi.org/10.1016/j.asjsur.2023.12.058>

traditional gastroscope for surgical procedures, single-use gastroscope has the following two advantages<sup>2</sup>:

- (1) The endoscopic mirror body is simple to connect with the optical cable, and it can be used by inserting the optical cable plug on the operating table, which is easier to install the sterile protective sleeve than the traditional gastroscope;
- (2) For patients with infectious diseases (such as syphilis, AIDS, etc.), the single-use electronic gastroscope can reduce the risk of infection and cross-infection of endoscope washers.

## Acknowledgments

The authors would like to thank:

1. National High Level Hospital Clinical Research Funding;
2. Elite Medical Professionals Project of China–Japan Friendship Hospital (NO.ZRJY2023-QM09, NO. ZRJY2023-QM15);
3. China-Japan Friendship Hospital National High Level Hospital Clinical Research Funding (NO.2023-NHLHCRF-YYPP-TS-02, NO.2023-NHLHCRF-YS-0103);
4. Beijing Demonstration Program of Research Ward (NO.2022-YJXBF-03-02);
5. China–Japan friendship hospital talent introduction project

(No.2018-RC-1).

6."Kunlun Talents High-end Innovation and Entrepreneurial Talents" project of Qinghai Province.

## References

1. Li ZQ, Wang PP, Liu BY, Meng H. Flexible endoscopy-assisted mastectomy: the first case report. *Asian J Surg.* 2023 Jul 2023;46(7):2767–2768.
2. Luo X, Ji M, Zhang S, et al. Disposable versus reusable gastroscopes: a prospective randomized noninferiority trial. *Gastrointest Endosc.* 2022 Aug 2022;96(2):250–261.

Zhengqi Li<sup>1</sup>, Zhe Wang<sup>1</sup>, Baoyin Liu<sup>\*\*</sup>, Hua Meng<sup>\*</sup>  
Department of General Surgery & Obesity and Metabolic Disease  
Center, China-Japan Friendship Hospital, Beijing, China

\* Corresponding author.

\*\* Corresponding author.

E-mail addresses: [xinfeidejia@sina.com](mailto:xinfeidejia@sina.com) (B. Liu),  
[menghuade@hotmail.com](mailto:menghuade@hotmail.com) (H. Meng).

7 November 2023  
Available online xxx

<sup>1</sup> Authors Zhengqi Li and Zhe Wang contributed equally to this article.