VIDEO

Laparoscopic-assisted total gastrectomy with D2 lymph node dissection: a case of 12-year-old child with advanced gastric cancer

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ABSTRACT

The video shows the operation of laparoscopic-assisted total gastrectomy with D2 lymph node dissection for a 12-year-old child with advanced gastric cancer.

gastric cancer, laparoscopic gastrectomy, children.

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Background:

Primary gastric adenocarcinoma is extremely rare in children, with advanced stage, poorer differentiation, lower radical resection rate and poorer prognosis [1-4]. Surgery is the most efficient treatment for gastric cancer in children. However, there is no report on laparoscopic gastrectomy (LG) for gastric cancer in children. Here, we report a laparoscopy-assisted total gastrectomy (LATG) with D2 lymph node (LN) dissection performed on a 12-year-old child with advanced gastric cancer.

Methods

A 12-year-old girl admitted our institution because of hematemesis and melena. Preoperative endoscopy and biopsy showed a signet-ring cell carcinoma in the body of stomach. Both ultrasonography and computerized tomography showed no distant metastasis. She was submitted to a LATG with D2 LN dissection in December 21, 2011.

Results:

The total operation time was 180 min, and the blood loss was 20 ml. We also find two anatomic variants of perigastric vessels: absence of the coronary vein and the common hepatic artery ran behind the portal vein. The postoperative pathological was pT4aN0M0, Stage IIB, and the number of dissection LNs was 56. The postoperative course was smooth with the child resuming diet by postoperative day (POD) 4. She discharged on POD 9. No adjuvant chemotherapy postoperation, until Dec. 2019, she has disease-free survival for 96 months.

Conclusions:

LG may be benefit for children gastric cancer with the advantages of minimally invasive. However, because of small abdominal space, smaller vessels, and more fragile tissue, this technique still has some difficulties and should be performed by experienced surgeons.

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Contributors

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Competing interests

No benefits in any form have been received or will be received from a commercial party related directly or indirectly to the subject of this article.

Availability of data and materials

The video associated whit this article can be found, in the on-line version, at:

https://www.journalofgastricsurgery.com/index.php/JGS/article/view/14

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Not applicable

Provenance and peer review

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