Robotic-assisted laparoendoscopic single-site total omentectomy

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Objective: We report two cases of robotic-assisted laparoendoscopic single site (R-LESS) total omentectomy for early stage ovarian cancer in young patients.

Methods: Case 1. A 25-year-old woman was referred for Lt. ovarian serous borderline tumor diagnosed by LESS ovarian cystectomy. Ascites cytology exam revealed serous borderline tumor as well. On imaging studies, metastatic tumor was not observed. She was planned to receive R-LESS fertility-sparing staging surgery. Case 2. A 31-year-old woman was diagnosed with Rt. ovarian tumor during her regular gynecologic check-up. Pelvic MRI showed A 2.8cm sized cystic and solid tumor without evidence of metastasis. She underwent LESS Rt. ovarian cystectomy. Serous borderline tumor was diagnosed, so we converted to R-LESS fertility-sparing staging surgery.

Results: Under Da-Vinci Xi single-site system, we were able to rotate the boom 180 degrees and perform total omentectomy. The operation time was 25 minutes and 27 minutes, respectively. There was almost no bleeding. Perioperative complications did not occur.

Conclusion: As previously reported, R-LESS staging surgery for ovarian malignant tumor is feasible in selected cases. As part of the procedure, we could demonstrate two cases of total omentectomy without complications.

Key Words: Ovarian neoplasms; Robotics; Omentectomy

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