

SUBXIPHOID APPROACH FOR THE RESECTION OF ENLARGED SUPRADIAPHRAGMATIC LYMPH NODES DURING PRIMARY **CYTOREDUCTION FOR ADVANCED OVARIAN CANCER:** A CASE REPORT.

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Introduction

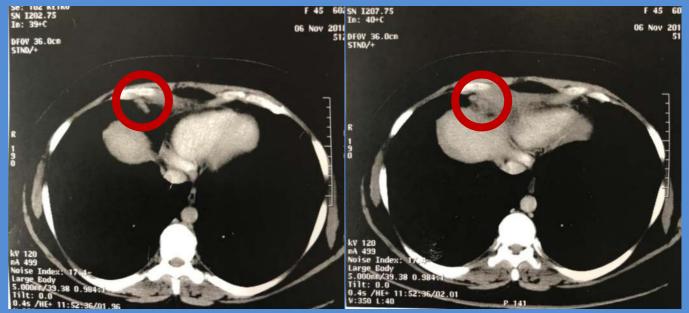
In ovarian cancer, metastatic cardiophrenic lymph nodes are associated with FIGO stage IV disease. The goal of debulking surgery should be no residual disease and resection of those lymph nodes is mandatory. The aim of this case report is to present the subxiphoid approach, as for the exploration alternative of both an supradiaphragmatic spaces from one incision, in contrast to the transdiaphragmatic approach.

Methods

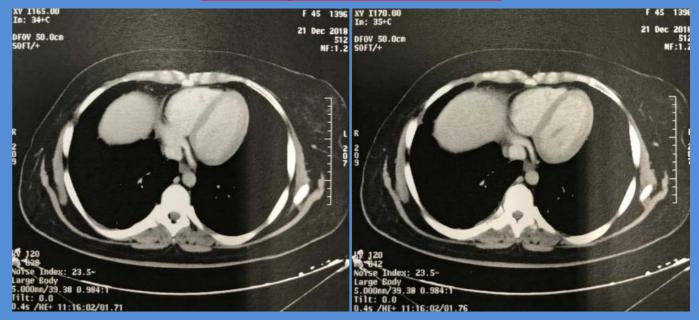
The patient was a 45 years old female. Preoperative workup revealed an elevated CA-125 of 2521 U/ml and a CTscan showing a pelvic mass, ascites, omental cake, diaphragmatic disease and enlarged supradiaphragmatic lymph nodes, without pleural effusion. The patient underwent primary debulking surgery. Cytoreduction included type II radical oophorectomy (en bloc modified radical abdominal hysterectomy, bilateral salpingooophorectomy, pan-pelvic peritonectomy, rectosigmoid colectomy), appendicectomy, cholecystectomy, radical omentectomy, paracolic gutters peritonectomy, small large bowel mesentery electro-coagulation, right diaphragm full-thickness resection and subxiphoid resection of supradiaphragmatic lymph nodes.

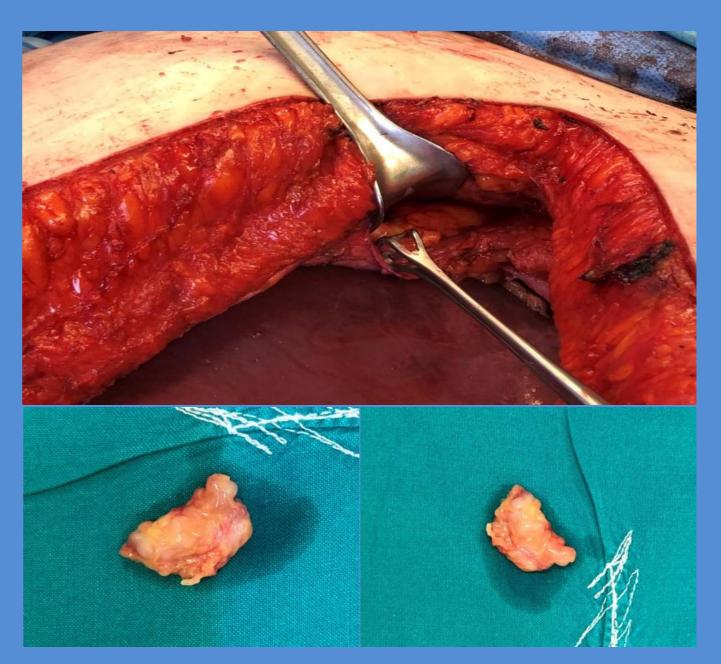
Results

Pre-operative CT scan



Post-operative CT scan





The supradiaphragmatic incision surgical steps included: subxiphoid peritoneal dissection, cutting of the transverse abdominis muscle, dissection of the retrosternal peritoneum laterally from the midline, digital development of the supradiaphragmatic space and removal of the enlarged lymph nodes. Total operative time was 450min and estimated blood loss 700ml, with no residual disease. Post-operative intensive care unit (ICU) admission was necessary for three days due to mild hemodynamic instability and the patient was discharged from hospital on the 17th postoperative day. The pathological report showed a grade III serous adenocarcinoma, with metastases to six of seven resected supradiaphragmatic lymph nodes.

Subxiphoid peritoneal dissection

Transverse abdominis muscle cutting

Retrosternal peritoneum lateral dissection

Supradiaphragmatic space digital development

Enlarged lymph node removal

Conclusions

Subxiphoid resection of supradiaphragmatic lymph nodes is a feasible alternative approach for the exploration of both cardiophrenic spaces with no direct diaphragmatic trauma.

References

Minig L. et al. A different surgical approach for cardiophrenic lymph node resection in advanced ovarian cancer. Ecancermedicalscience. 2017; 11:780.