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Laparoscopic pelvic lymphadenectomy in the staging of early carcinoma of the endo-cervix

Alexandru Filipescu

Carol Davila University of Medicine and Pharmacy, Romania

Laparoscopic pelvic lymphadenectomy was performed in 23 patients. Subsequently, laparoscopic surgery allowed precise dissection of external and internal iliac vessels, umbilical artery, and obturator nerve. Three to 18 (mean, 6.7) nodes were removed, and there was no significant morbidity. Sensitivity and specificity were 100% in this preliminary experience. It is thus possible to remove the first-line regional lymph nodes of the cervix for pathologic examination. Because "skip" metastases are quite rare in early cervical carcinoma, the risk of missing a positive node is low. Brachytherapy alone, vaginal surgery, or, in micro invasive carcinoma, conization alone can be applied safely without the need of a staging laparotomy in cases with negative nodes.

afilipescu@hotmail.com

Enhancement of cell cycle inhibition effect of cetuximab by using stabilized-silver solution in lung cancer cells

Aysun Özkan and Ayşe Erdogan

Akdeniz University, Turkey

This study aimed to evaluate the expression levels of topoisomerase alpha and cyclin1 and 2 in parental (P-H1299) and epirubicin resistant (R-H1299) lung cancer cells. These cells were treated with cetuximab (C225, Erbitux, a chimeric anti-epidermal growth factor receptor (EGFR) monoclonal antibody) alone and combined with stabilized-silver (St-Ag) ion solution. Total cellular RNA was isolated by RNeasy mini kit (Qiagen) after cetuximab alone and combined with St-Ag ion solution treatment for 72 hours. Total RNA was reverse-transcribed into cDNA by using Titan One Tube RT-PCR system kit. Two µl of the cDNA was used for the PCR reaction as templates. The PCR was performed in 30 cycles of denaturation at 94°C for 1 min, annealing at 55°C for 1 min and extension at 72°C for 2 min. The resulting PCR products were analyzed by 2.5% agarose gel electrophoresis. Adobe photoshop CS4 program was used for band density analyzing. Cetuximab with St-Ag ion solution treatment was found more effective than cetuximab alone treatment in decreasing topoisomerase alpha (except in R-H1299 cells) and cyclin1 and 2 expressions in both cells according to control cells. Combine treatment caused more arrest in G1-phase of the cell cycle in these cells. In this study, we demonstrated that cetuximab alone and combine with St-Ag ion solution could exhibit potent anticancer activity by arresting the cell cycle in lung cancer cells. Our study may provide a reason for future clinical investigations of cetuximab combination therapy for growth control of lung cancer.

aozkan@akdeniz.edu.tr