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ANALYSIS OF THE EFFECTS OF DRUGS AND TECHNIQUES USED IN ANESTHESIA ON TUMOR RECURRENCE, METASTASIS AND SURVIVAL IN OVARIAN SEROUS ADENOCARCINOMA

Sudha P^a

^aRegional Cancer Centre, India

Background: Numerous factors affect the risk of recurrence and metastasis after cancer surgery. Studies have observed that anesthetic techniques have effects on tumor recurrence.

Methods: Medical records of newly diagnosed ovarian serous adenocarcinoma patients who underwent radical hysterectomy with bilateral salpingo-oophorectomy from 1995-2008 were analyzed for the effect of anesthetic techniques and drugs on tumor recurrence & metastasis free survival rate and mortality rate. Univariate association between overall survival and anesthesia technique was assessed using Kaplan-Meier survival estimates and Cox regression. Multivariate association was tested after adjusting potential confounding factors.

Results: The overall survival rate (RR at 95% CI=3.16 (1.79-5.60)) was significantly better in patients who received regional anesthesia for surgery than those who had general anesthesia. Other factors significantly associated with overall survival rate in univariable analysis were, perioperative blood transfusion, preoperative Ca 125 level, FIGO stage, tumor size and lymphatic metastasis. Kaplan Meier survival curve showed that regional anesthesia group had higher overall survival rate. Recurrence rate did not show significant difference in univariable (Odds 95% CI 1.42 P=0.273) and multivariable (Odds 95% CI=0 P=0.846) analysis. All the 18 patients who had metastasis underwent surgery under GA.

Conclusions: This study showed marked increase in overall survival rate in patients who underwent surgery under regional anesthesia when compared to those who had surgery under general anesthesia. Prospective randomized control trials are needed for better evaluation.

Biography

Sudha P is an Associate Professor in Anesthesiology at Regional Cancer Centre, Trivandrum, Kerala, India. She has Post-graduate degree (MD) and Diploma in Anesthesiology (DA), Post-graduate Diploma in Health and Hospital Administration (PGDHHA) and degree of Master of Hospital Administration (MHA) from the University of Kerala, India. Her areas of professional interests are pain management, regional anesthesia, nerve blocks and hospital management. She was awarded UICC: ICRET Fellowship thrice for doing projects in MD Anderson Cancer Centre, Houston, Texas, Memorial Sloan Kettering Cancer Centre, New York and TJ Samson Community Hospital, Glasgow, Kentucky. She has publications in reputed Indian and international journals.

drsudhap@yahoo.co.in

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