**Original article:**

**“Combined general anaesthesia with paravertebral block versus general anaesthesia alone in modified radical mastectomy: a stress response to surgery”**

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**Abstract:**

**Aim:** The purpose of our study was to compare the stress response to surgery for patients undergoingmodified radical mastectomywithcombined general anaesthesia with paravertebral block versus general anaesthesia alone.

**Methods:** It was a prospective, randomized, controlled study conducted on 60 female patients,30 in each group.Group A:combined general anaesthesiawith paravertebral block and Group B: Patients received general anaesthesia alone.We compared hemodynamic parameters such as pulse rate, blood pressure and biochemical parameters such as blood glucose, plasma cortisol levels and effect on tissue oxygen saturation (pO2) during peri-operative periods in both the groups.

**Results:** Decreased serum cortisol, blood glucose and increase in tissue oxygenation (pO2) levels in intra and postoperative period in group A compared with group B(p<0.05)and regarding intra-operative and post-operative hemodynamics tachycardia and hypertension were more common in group B compared with group A(p<0.05).

**Conclusion:** Combination of general anesthesia with paravertebral block provides better intraoperative and postoperative hemodynamic stability relative to general anesthesia alone and decreased stress response to surgery andattenuates the physiologic response to surgery.

**Key words:** Paravertebral block,Modified radical mastectomy, Stress response