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Serum leptin in intraductal carcinoma of the breast

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Introduction: Leptin hormone which is secreted from the adipose tissue and responsible for satiety through its action on leptin receptors was found to have some adverse effects on other tissues. It promotes the tumerogenesis of breast tissue.

Aim: Aim of this study is to show the differences between serum leptin levels in normal and cancer group and to compare between serum leptin levels in pre and post-operative patients with breast cancer.

Method: In our study, serum leptin levels were measured in the control and study group using ELISA kit. The control group was composed of 40 women with negative mammogram for breast cancer, while the study group were 51 women with intraductal carcinoma of the breast. Pre and postoperative samples were taken from the study group.

Results: Significant differences between the control and the study group were observed regarding serum leptin levels; also we found significant correlation between the serum leptin levels and the BMI of the control group. Our study had showed no differences between the pre and post-operative serum leptin levels.

Conclusion: Leptin may have an important print in mapping the tumerogenesis of breast cancer. Attempts to inhibit leptin levels might help in the prevention of breast cancer.

Biography

Saad M Al-Shibli completed his Graduation from College of Medicine, Baghdad University. He got the membership of the Royal College of Surgeons of Ireland in 2004, appointed as an Assistant Professor in Tikrit University, Iraq. Currently, he is a Lecturer in the Anatomy department, College of Medicine, International Islamic University Malaysia and his special interest is Applied Anatomy. He is a part time PhD candidate in Anatomy at the same university.

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